ø30 Switches and Pilot Lights

TWN TWND Series



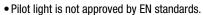
Heavy duty switches & pilot lights offer both variety and reliability.











- DC-DC convertor unit is not approved by standards.
- See website for details on approvals and standards.







Model	Features	Page
Plastic TWN Series	The all-time bestseller since first developed. Suitable for versatile applications.	B-304
Diecast Zinc TWND Series	Heavy-duty switches for tough industrial usage.	B-326

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Relays & Sockets
Circuit
Protectors
Power Supplies
LED Illumination
Controllers
Operator

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature
Pilot Lights

ARN

ø30 TWN/TWND Selection Guide

Function	Pushbutton						
Cotogony	Flu	ısh	Exte	nded	Extended wit	h Half Shroud	
Category	Momentary	/Maintained	Momentary	/Maintained	Momentary	/Maintained	
Shape		6		Diecast Zinc		Diecast Zinc	
Model	ABN1 AON1	ABD1 AOD1	ABN2 AON2	ABD2 AOD2	ABN2G AON2G	ABGD2 AOGD2	
Page	B-310	B-326	B-310	B-326	B-310	B-326	

Function		Pushbutton						
Catamani	Extended wit	h Full Shroud	Mush	nroom	Mushroom with Full Shroud			
Category	Momentary.	/Maintained	Momentary	/Maintained	Momentary	/Maintained		
	_	Diecast Zinc		Diecast Zinc		Diecast Zinc		
Shape								
Model	ABN2F	ABFD2	ABN3	ABD3	ABN3G	ABGD3		
Iviouei	A0N2F	AOFD2	AON3	AOD3	_	AOGD3		
Page	B-310	B-326	B-311	B-327	B-311	B-327		

Function	Pushbutton						
Cotogony	Jumbo N	lushroom	Jumbo Mushroom v	with Shallow Shroud	Jumbo Mushroom	with Deep Shroud	
Category	Mom	entary	Momo	entary	Mom	entary	
		Diecast Zinc		Diecast Zinc		Diecast Zinc	
Shape							
Model	ABN4	ABD4	ABN4G	ABGD4	ABN4F	ABFD4	
Page	B-311	B-327	B-311	B-327	B-311	B-327	

Function	Pushbutton						
Category	Mushroom Pushlo	ock Turn Reset (*1)	Mushroom P	ush Turn Lock	Mushro	oom Pull	
Shape		Diecast Zinc		Diecast Zinc		Diecast Zinc	
Model	AVN3	AVD3	AJN3	AJD3	AZN3	AZD3	
Page	B-312	B-328	B-312	B-328	B-312	B-328	

Function	Pushbutton						
Category	Mushroom	Push-Pull	Pin I	_ock			
Shape	_	Diecast Zinc	_	Diecast Zinc			
Model	_	AYD3	_	ABD8P			
Page	_	B-328	_	B-327			

 $^{^{\}star}$ 1) Cannot be used as emergency stop switch based on ISO 13850 and IEC 60947-5-5.

Control Boxes

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ø30 TWN/TWND Selection Guide

Function	LED Illuminated Pushbutton						
Cotogory	Extended		Extended wit	h Half Shroud	Extended wit	h Full Shroud	
Category	Momentary	/Maintained	Momentary	/Maintained	Momentary	/Maintained	
Shape		Diecast Zinc		Diecast Zinc —		Diecast Zinc	
Model	ALN2 AOLN2	ALD2 AOLD2	ALGN2 AOLGN2	_	ALFN2 AOLFN2	ALFD2 AOLFD2	
Page	B-313	B-329	B-313		B-313	B-329	

Function	LED Illuminated Pushbutton						
Category	Mush	room	Muchroom Duchl	ock Turn Reset (*1)	Muchroom P	ush Turn Lock	
Category	Momentary	/Maintained	Wushi ooni Fushi	ock fulli neset (1)	IVIUSIII OOIII F	usii iuiii Lock	
Shape		Diecast Zinc		Diecast Zinc		Diecast Zinc —	
Model	ALN3 AOLN3	ALD3 AOLD3	AVLN3	AVLD3	AJLN3	_	
Page	B-313	B-330	B-314	B-330	B-313		

Function	Selector Switches						
Category	Knob		Le	ver	Key		
Shape		Diecast Zinc		Diecast Zinc		Diecast Zinc	
Model	ASN	ASD	ASN□L	ASD□L	ASN□K	ASD□K	
Page	B-316	B-331	B-317	B-332	B-318	B-333	

Function		Selector Switch	Selector P	ushbutton	
Category	Key	LED Illumii	nated Knob	Ring O _l	perator
Shape			Diecast Zinc		Diecast Zinc
Model	ASN□K-N024401	ASLN	ASLD	ASBN2	ASBD2
Page	B-319	B-320	B-334	B-323	B-335

Function	LED Illuminated Pilot Light				
Category	Dome		Square Extended (IP40)	Rectangular (Marking) (IP40)	
Shape		Diecast Zinc			
Model	APN1	APD1	UPQN3B	UPQN4	
Page	B-324	B-336	B-324	B-324	

 $^{^{\}star}$ 1) Cannot be used as emergency stop switch based on ISO 13850 and IEC 60947-5-5.

ø30 TWN/TWND Ratings/Specifications

Heavy duty switches & pilot lights offer both variety and reliability. Endures harsh environments.

Equipped with HW-U contact blocks featuring finger-safe (IP20) structure and spring-up terminals.

ø30 TWN Series (plastic)



ø30 TWND Series (Diecast Zinc)



APEM

Switches &

Control Boxes

Emergency Stop Switches Enabling

Safety Products

Switches

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Protectors

Power Supplies

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Controllers

Operator

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Pilot Lights

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Ratings and Specifications

Contact ratings

Pushbuttons	Rated insulation voltage	600V
Illuminated Pushbuttons	Rated continuous current	10A
Selector Switches Illuminated Selector Switches Selector Pushbuttons	Contact ratings by utilization category JIS C8201-5-1 IEC60947-5-1	AC-15 (A600) DC-13

Contact ratings by utilization category

HW-U10 (NO contact), HW-U01 (NC contact)

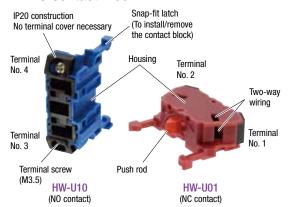
Operating Voltage	е		24V	48V	48V 50V 110V 220V 4			440V
	AC	AC-12 Control of resistive loads and solid state loads	10A	_	10A	10A	6A	2A
Operating	50/60 Hz	AC-15 Control of electromagnetic loads (> 72 VA)	10A	_	7A	5A	3A	1A
Current	DC	DC-12 Control of resistive loads and solid state loads	10A	5A	_	2.2A	1.1A	_
	DC	DC-13 Control of electromagnets	5A	2A	_	1.1A	0.6A	_

HW-U10R (EM contact/NO contact), HW-U01R (LB contact/NC contact)

Operating Voltag	e		24V	48V 50V 110V 220V				440V
	AC	AC-12 Control of resistive loads and solid state loads	5A	-	5A	5A	3A	1A
Operating	50/60 Hz			-	3.5A	2.5A	1.5A	0.5A
Current	DC	DC-12 Control of resistive loads and solid state loads	5A	2.5A	_	1.1A	0.55A	_
	DC	DC-13 Control of electromagnets	2.5A	1A	_	0.55A	0.3A	_

- The operating current represents the classification by making and breaking currents (IEC 60947-5-1).
- Silver contacts
- . Minimum applicable load: 3V AC/DC, 5 mA (applicable range may vary with operating conditions and load types)
- For mono-lever switches and cam switches, see the brochures of each product.

HW-U Contact Block



		r		·		
Part No.	HW-U10	HW-U01	HW-U10R	HW-U01R		
Contact	_/_	7	_/_	7		
Contact	1NO	1NC	EM (NO) (early make)	LB (NC) (late break)		
Terminal No.	3-4	1-2	3-4	1-2		
Housing color	Blue	Reddish purple	Blue	Reddish purple		
Push Rod color	Green	Red	Black	White		
Weight	Approx. 11g					

- Up to 4 contacts in two decks can be mounted onto each operator.
 (AZN, AZD, AYD: Up to 2 contact blocks in one deck)
- Cannot be used on operators in dark gray or light gray color.
- Gold contact available (gold-plated silver)

Control Boxes Emergency Stop Switches Enabling Switches Safety Products

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit Protectors Power Supplies LED Illumination Controllers Operator

> Sensors AUTO-ID

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Miniature Pilot Lights

> ARN CS

LED Illuminated Part Specifications

Unit				LED I	amp	
UIIIL	Rated Voltage		Operating Vo	Operating Voltage		Part No.
	6V AC/DC		6V AC/DC			LSRD-6
	12V AC/DC		12V AC/DC			LSRD-1
	24V AC/DC		24V AC/DC			LSRD-2
	100/110V AC		100/110V AC		BA9S/13	LSRD-6
	115/120V AC (*1)		115/120V AC (*1)	. 100/		
Illuminated pushbutton	120V AC (*2)		120V AC (*2)			
Illuminated selector switch	200/220V AC		200/220V AC	±10%		
Pilot light	230/240V AC (*1)	50/60 Hz	230/240V AC (*1)			
	240V AC (*2)		240V AC (*2)			LOND-0
	380V AC		380V AC			
	400/440V AC		400/440V AC			
	480V AC		480V AC			
	110V DC		90 to 140V DC			

Illuminated Part Type and Shape

		Illuminate	d Unit		Pilot	Light	
Power Unit	Full voltage adapter	Transfo	rmer	DC-DC converter	Full voltage adapter (unibody)	Transformer	DC-DC converter
Rated Voltage	6V, 12V, 24V AC/DC	100 to 240V AC	380V AC min.	110V DC	6V, 12V, 24V AC/DC	100 to 480V AC	110V DC
Polarity	None	None	None	X1 (+) X2 (-)	None	None	X1 (+) X2 (-)
Shape/Terminal	X1 X2	X1 X2		X1 X2	(APN1)		X1 X2

[•] Note the polarity for wiring when connecting to DC-DC converter unit.

Х1

_amp Ratings	(LSRD)	
	1000	

LED Lam	p Ratings	(LSRD)	X2	
Part No.		LSRD-6	LSRD-1	LSRD-2
Lamp Base		BA9S/13		
Rated Voltage	e	6V AC/DC	12V AC/DC	24V AC/DC
Voltage Rang	je	6V AC/DC ±10%	12V AC/DC ±10%	24V AC/DC ±10%
Current	DC	10mA	7mA	7mA
Draw	AC	14mA	8mA	8mA
Voltage Mark	king	Die stamped on the base		
Life (reference	ce value)	Approx. 50,000 hours (The luminance is reduced to 50% the initial	intensity when used on complete DC at 25°C.)	
Internal Circu	uit	X1 — Noise	d current circuit protection circuit ier circuit er protection circuit	Example: LSRD-2
Weight		Approx. 2g		

[•] Only one color is available for LSRD so there are no codes to specify the color in the part no.

See LED lamps, see LED Lamp Ratings below.
 *1) Illuminated pushbutton, illuminated selector switch

^{*2)} Pilot light

Specifications

Specifications						
Operating Temperature			Non-illuminated: -25 to +30°C		& Pilot Lights	
Storage Temperature			-40 to +80°C (no freezing	·	-	
Operating Humidity			45 to 85% RH (no condens	-	ig	
Contact Resistance			50 mΩ maximum (initial va	,	ड	
Insulation Resistance			100 MΩ minimum (500V E			
modiation ricolotaires			<u> </u>	etal parts: 2,500V AC, 1 minute		
Dielectric Strength			(Full voltage and pilot light 2000V AC, (pilot lights: 6V	s: 2,000V AC, 1 minute)	APEM	
1/1 U D 1 1	Damage limits		30 Hz, amplitude 1.5 mm		Switches & Pilot Lights	
Vibration Resistance	Ü		5 to 55 Hz, amplitude 0.5	mm		
Observation Descriptions	Damage limits		1000 m/s ²		Control Boxes	
Shock Resistance	Operation extremes		100 m/s ²		Emergency Cton Cuitoboo	
		Momentary	5,000,000		Stop Switches Enabling	
	Duchhutton	Maintained	500,000 (over 3 contacts:	250,000)	Switches	
	Pushbutton	Push lock turn reset	500,000		Safety Products	
		Pull	500,000		- Suloty Froudtis	
Mechanical Life		Momentary	2,500,000		Explosion Proof	
(minimum operations)	Illuminated pushbutton	luminated pushbutton Maintained		500,000 (over 3 contacts: 250,000)		
	Selector switch		500,000	Terminal Blocks		
	Key selector switch		500,000		Relays & Sockets	
	Illuminated selector switch		500,000		Circuit	
	Selector pushbutton		250,000		Protectors	
		Momentary	500,000 Switching frequ	uency 1800 operations/h, duty ratio 40%	Power Supplies	
	Pushbutton	Maintained	500,000 (over 3 contacts:		LED Illumination	
		Push lock turn reset		uency 900 operations/h, duty ratio 40%		
		Momentary		uency 1800 operations/h, duty ratio 40%	Controllers	
Electrical Life (minimum operations) (*1)	Illuminated pushbutton	Maintained	500,000 (over 3 contacts:		Operator Interfaces	
	Selector switch	<u>'</u>		uency 1200 operations/h, duty ratio 40%	Sensors	
	Key selector switch		500,000 Switching frequ	uency 1200 operations/h, duty ratio 40%	<u> </u>	
	Illuminated selector swite	ch		uency 1200 operations/h, duty ratio 40%	AUTO-ID	
	Selector pushbutton		250,000 Switching frequ	uency 900 operations/h, duty ratio 40%		
	·	Pushbutton	ABN122: 82g	ABN322: 87g		
		Illuminated pushbutton	ALN22222DN: 106g	ALN21622DN: 163g	—	
	TWN series	Selector switch	ASN222N: 83g	ASN2K22N: 120g	Flush Silhouette	
		Illuminated selector switch	ASLN22222DN: 106g	ASLN21622DN: 163g	a16	
Weight (some		Pilot light	APN122DN: 46g	APN116DN: 125g	ø16 	
Weight (approx.)		Pushbutton	ABD122: 108g	ABD322: 113g	ø22	
		Illuminated pushbutton	ALD22222DN: 132g	ALD21622DN: 189g		
	TWND series	Selector switch	ASD222N: 110g	ASD2K22N: 147g	ø30	
		Illuminated selector switch	ASLD22222DN: 133g	ASLD21622DN: 190g	Miniature	
	Pilot light		APD122DN: 75g	APD116DN: 152g		

^{*1)} Load condition 220V AC 3A (AC-15)

Degree of Protection

Series	Unit	Model	IEC 60529	JIS C 0920		
	Pushbutton	ABN, AON, AVN				
	Illuminated pushbutton	ALN, AOLN, AVLN				
	Selector switch	ASN, ASN□L				
TWN corios	Key selector switch	ASN□K	IP65	Dust-proof/jet-proof		
TWN series	Illuminated selector switch	ASLN				
	Selector pushbutton	ASBN				
	Round pilot light	APN				
	Square pilot light	UPQN	IP40	_		
	Pushbutton	ABD, AOD, AVD				
	Illuminated pushbutton	ALD, AOLD, AVLD				
TAME :	Selector switch	ASD, ASD□L				
TWND series Diecast zinc	Key selector switch	ASD□K	IP65	Dustproof/jet-proof		
Diecast zinc	Illuminated selector switch	ASLD				
	Selector pushbutton	ASBD				
	Round pilot light	APD				

[•] Switches/pilot lights have been tested in a test room in accordance with the degree of protection standards, by installing on an enclosure to valuate the effect on the enclosure or inside the switch or pilot light.

For harsh environment such as torrid/frigid area

TWN/TWND series for harsh environment such as tropical/frigid area is also available (not approved by standards). Contact IDEC for details.



	Stup Switches
	Enabling Switches
	Safety Products
	Explosion Proof
	Terminal Blocks
	Relays & Sockets
	Circuit Protectors
	Power Supplies
	LED Illumination
	Controllers
	Operator Interfaces
	Sensors
	AUTO-ID
	Flush Silhouette
_	ø16
	ø22
	ø30
	Miniature
	Pilot Lights

ARN CS

Control Boxes

Stop Switches

Explosion Proof Terminal Blocks

Relays & Sockets

Power Supplies

LED Illumination

Controllers

Operator

Sensors

AUTO-ID

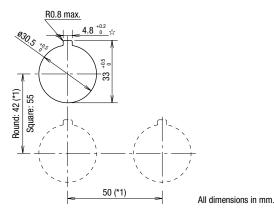
Interfaces

Circuit Protectors

Emergency

Enabling Switches Safety Products

Mounting Hole Layout/Mounting Centers



- The minimum mounting centers are applicable to pilot lights with one layer of contact blocks (one to two contact blocks). When two layers of contact blocks (four contact blocks) are mounted, determine the minimum mounting centers in consideration of convenience for wiring.
 - *1) Mushroom with shroud: 50 mm minimum
- *1) Jumbo mushroom: 67 mm minimum
- *1) Jumbo mushroom with shroud: 77 mm minimum

When high temperature is expected, take necessary measures such as

securing sufficient mounting centers or using a cooling fan.

• The 4.8 $^{+0.2}_{-0}$ mm recess is for preventing rotation and is not necessary when the nameplate or anti-rotation ring is not used.

Note: For mounting hole layout of mono-lever switches and cam switches, see IDEC's website.

Notes for Ordering

Standard models

- Specify Ordering No. when ordering.
- Specify a color code in place of *
- Pilot lights, illuminated pushbuttons, and illuminated selector switches have an LED lamp installed.
- Pilot lights are equipped with a terminal cover.
- Color codes for units without LED lamps:
- R (red), G (green), A (amber), Y (yellow), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of TWN/TWND series cannot be guaranteed when a commercially available lamp is used.

- · Terminal covers, nameplates, and accessories for mono-lever swictch and cam switch are ordered separately.
- For terminal cover, nameplate and other accessories of mono-lever switches and cam switches, see IDEC's website.

Ordering Information

Pushbutton Flush Silhouette

ø16

When specifying gold-plated silver contact and contact configuration:

ø22 TWN series (B-310 to B-312)

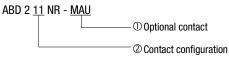
Miniature

Pilot Lights

ARN CS

ABN 2 11 R - MAU ① Optional contact 2 Contact configuration

TWND series (B-326 to B-328)



<Codes>

① Optional contact

MAU: Gold-plated silver

2 Contact configuration

10: 1NO

01: 1NC

11: 1NO1NC

20: 2N0 02: 2NC

2N02NC 22:

40: 4N0

04: 4NC 13:

1N03NC 31:

3N01NC

30: 3N0

3NC 03: 12: 1N02NC

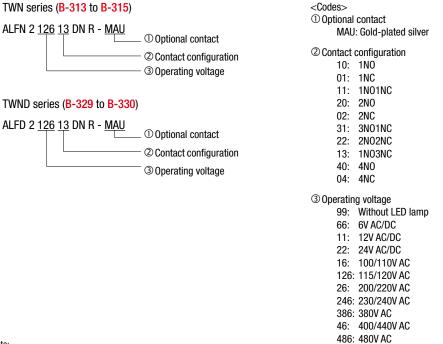
2N01NC

- Pushbutton with one or three contact blocks contains a dummy block.
- Mushroom pull pushbuttons AZN, AZD and mushroom push-pull AYD have up to two contacts in one layer.

Ordering Information

Illuminated Pushbutton

When specifying gold-plated silver contact, contact configuration, and LED operating voltage:



Note

- Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, are not available for models of 100V AC or over.
- Illuminated pushbuttons of 24V AC/DC and below with two or four contact blocks contain a dummy block.
- See B-309 for how to specify 110V DC model (DC-DC converter).
- Color codes for units without LED lamps:

R (red), G (green), A (amber), Y (yellow), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

Selector Switch

When specifying gold-plated silver contact and contact configuration:

```
TWND series (B-316 to B-319)

ASN 2 11 N - MAU

Optional contact

Optional contact

Optional contact

MAU: Gold-plated silver
```

Key removable position code (example)

	Position	Vou removable position	Key removable	Part No. Example				
FOSITION		Key removable position	position code		TWND series			
		Removable in all positions	(blank)	ASN2K20N	ASN2K20N-N024401	ASD2K20N		
	Maintained	Removal in left only	В	ASN2K20NB	ASN2K20NB-N024401	ASD2K20NB		
2-position		Removable in right only	С	ASN2K20NC	ASN2K20NC-N024401	ASD2K20NC		
	Spring return from right	Removal in left only	(blank)	ASN21K20N	ASN21K20N-N024401	ASD21K20N		
	Spring return from left	Removable in right only	(blank)	ASN22K20N	ASN22K20N-N024401	ASD22K20N		
		Removable in all positions	(blank)	ASN3K20N	ASN3K20N-N024401	ASD3K20N		
		Removable in left and center	В	ASN3K20NB	ASN3K20NB-N024401	ASD3K20NB		
		Removable in right and center	С	ASN3K20NC	ASN3K20NC-N024401	ASD3K20NC		
	Maintained	Removable in center only	D	ASN3K20ND	ASN3K20ND-N024401	ASD3K20ND		
		Removable in right and left	E	ASN3K20NE	ASN3K20NE-N024401	ASD3K20NE		
		Removal in left only	G	ASN3K20NG	ASN3K20NG-N024401	ASD3K20NG		
0:		Removable in right only	Н	ASN3K20NH	ASN3K20NH-N024401	ASD3K20NH		
3-position		Removable in left and center	(blank)	ASN31K20N	ASN31K20N-N024401	ASD31K20N		
	Spring return from right	Removable in center only	D	ASN31K20ND	ASN31K20ND-N024401	ASD31K20ND		
		Removal in left only	G	ASN31K20NG	ASN31K20NG-N024401	ASD31K20NG		
		Removable in right and center	(blank)	ASN32K20N	ASN32K20N-N024401	ASD32K20N		
	Spring return from left	Removable in center only	D	ASN32K20ND	ASN32K20ND-N024401	ASD32K20ND		
		Removable in right only	Н	ASN32K20NH	ASN32K20NH-N024401	ASD32K20NH		
	Spring return two-way	Removable in center only	(blank)	ASN33K20N	ASN33K20N-N024401	ASD33K20N		

[•] The key cannot be removed in spring return positions.

Download catalogs and CAD from https://www.idec-emea.com

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

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Operator Interfaces

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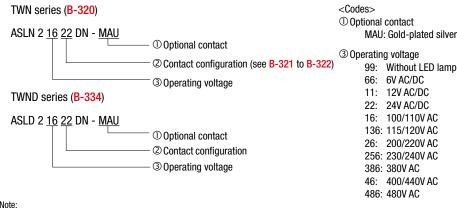
Circuit

Protectors

Ordering Information

Illuminated Selector Switch

When specifying gold-plated silver contact, contact configuration, and LED operating voltage:



- Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, is not available for models of 100V AC or over.
- Illuminated selector switches of 24V AC/DC and below with two or four contact blocks contain a dummy block.
- See below for how to specify 110V DC model (DC-DC converter).
- Color codes for units without LED lamps: R (red), G (green), A (amber), Y (yellow), S (blue) When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

Pilot Light (LED)

When specifying LED operating voltage:

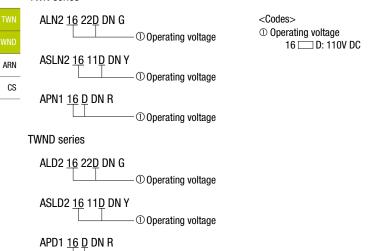
```
TWN series (B-324 to B-325)
                                                  <Codes>
                                                  ① Operating voltage
  APN1 26 DN R
                                                        99: Without LED lamp
                                                       66: 6V AC/DC
                       ① Operating voltage
                                                        11: 12V AC/DC
  UPQN3B 22 D R
                                                        22: 24V AC/DC
                                                        16: 100/110V AC
                       ① Operating voltage
                                                        126: 115/120V AC
                                                        26: 200/220V AC
  TWND series (B-336)
                                                        246: 230/240V AC
                                                        386: 380V AC
  APD1 26 DN R
                                                        46: 400/440V AC
                       ① Operating voltage
                                                        486: 480V AC
```

- See below for how to specify 110V DC model (DC-DC converter). Color codes for units without LED lamps: R (red), G (green), A (amber), Y (vellow), S (blue)
- When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

DC-DC Convertor Model (110V DC)

When specifying DC-DC convertor type on illuminated pushbuttons, illuminated selector switches, and pilot lights:

TWN series



See 110V DC model (DC-DC converter) is not approved by standards (operating voltage: 90 to 140V DC).

① Operating voltage

• Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, is not available for 100V DC model (DC-DC converter).

Flush/Extended/Extended w/Half Shroud/Extended with Full Shroud

Package Quantity: 1

		v.				Package Quantity: 1	
Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)	t Lights
Flush		1NO	ABN110*	В			ङ
ABN1		1NC	ABN101*	G			
AON1	Mamantani	1NO-1NC	ABN111*	R			
	Momentary	2N0	ABN120*	Y S		Panel Thickness 0.8 to 7.5	APEM
		2NC	ABN102*	W			Switches &
		2NO-2NC	ABN122*	Note	4 4 4		Pilot Lights
		1NO	A0N110*	В			Control Boxes
		1NC	A0N101*	G	45.4 (1 or 2 blocks)	29.6	Emergency Stop Switches
	Maintained	1NO-1NC	A0N111*	R Y	65.4(3 or 4 blocks)	g	Enabling
	Mannameu	2N0	A0N120*	S			Switches
		2NC	A0N102*	W			Safety Products
		2NO-2NC	A0N122*	Note			
Extended		1NO	ABN210*				Explosion Proof
ABN2 AON2		1NC	ABN201*	B G			Terminal Blocks
AUNZ	Momentary	1NO-1NC	ABN211*	R			
	Womentary	2N0	ABN220*	Υ	-11-	Panel Thickness 0.8 to 7.5	Relays & Sockets
		2NC	ABN202*	S W			Circuit
		2NO-2NC	ABN222*	VV	4	8324	Protectors
		1NO	A0N210*	D			Power Supplies
	Maintained	1NC	A0N201*	B G	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 1	29.6	LED Illumination
		1NO-1NC	A0N211*	R		14 ø39	
		2N0	A0N220*	Y			Controllers
		2NC	A0N202*	S W			Operator Interfaces
		2NO-2NC	A0N222*	**			
Extended with Half Shroud		1NO	ABN2G10*	В			Sensors
ABN2G AON2G		1NC	ABN2G01*	Ğ			AUTO-ID
Nonza	Momentary	1NO-1NC	ABN2G11*	R			
	Wiomentary	2N0	ABN2G20*	Y	-↑ * Pa	nel Thickness 0.8 to 3.5	
		2NC	ABN2G02*	S W			
		2NO-2NC	ABN2G22*		4.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flush Silhouette
		1NO	AON2G10*	В		150 150 150 150 150 150 150 150 150 150	
		1NC	AON2G01*	Ğ	40.9 (1 or 2 blocks) 18	.5 29.6	ø16
	Maintained	1NO-1NC	AON2G11*	R	60.9 (3 or 4 blocks) 20	0.5 ø39	ø22
	Mantanou	2N0	AON2G20*	Y			ø30
		2NC	AON2G02*	S W			Ø3U
		2NO-2NC	AON2G22*				Miniature
Extended with Full Shroud ABN2F		1NO	ABN2F10*	В			Pilot Lighte
AON2F		1NC	ABN2F01*	G			Pilot Lights
1 : := : :==!	Momentary	1NO-1NC	ABN2F11*	R			
	inomornary	2N0	ABN2F20*	Y		Panel Thickness 0.8 to 6	
No.		2NC	ABN2F02*	S W			TWN
		2NO-2NC	ABN2F22*			400	- T WIN
		1NO	AON2F10*	В			TWND
		1NC	AON2F01*	Ğ		14 29.6	ARN
	Maintained	1NO-1NC	A0N2F11*	R		6.5	AIIII
		2N0	AON2F20*	Y S			CS
		2NC	A0N2F02*	W W			

• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

2NO-2NC

- Round bezel and shroud (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

Note ABN1, AON1 with button color of B (black), G (green), or (R) red Supply of color buttons B, G, R has been discontinued for ABN1/AON1 without color code. When ordering, make sure to specify the required button color code.

A0N2F22*

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWND

CS

Mushroom/Mushroom w/Full Shroud/Jumbo Mushroom/Jumbo Mushroom w/Shallow Shroud/Jumbo Mushroom w/Deep Shroud

Package Quantity: 1

	Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)
M & &	Mushroom ABN3 AON3	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN310* ABN301* ABN311* ABN320* ABN302*	B G R Y S	Panel Thickness 0.8 to	07.5
es ey es g es		Maintained	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN322* A0N310* A0N301* A0N311* A0N320* A0N302* A0N322*	B G R Y S	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 22	29.6
of ss ss its it rs	Mushroom with Full Shroud ABN3G	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN3G10* ABN3G01* ABN3G11* ABN3G20* ABN3G02* ABN3G02*	B G R Y S W	Panel Thickness 0.8 to 43.9 (1 or 2 blocks) 63.9 (3 or 4 blocks) 23.5	29.6
n s or s s	Jumbo Mushroom ABN4	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN410* ABN401* ABN411* ABN420* ABN402* ABN422*	B G R Y	Panel Thickness 0.8 to 7.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 29	29.6
e 6 2 0 e	Jumbo Mushroom with Shallow Shroud ABN4G	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN4G10* ABN4G01* ABN4G11* ABN4G20* ABN4G02* ABN4G22*	B G R Y	Panel Thickness 0.8 to 7.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 29	29.6
N D N	Jumbo Mushroom with Deep Shroud ABN4F	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NC-2NC	ABN4F10* ABN4F01* ABN4F11* ABN4F20* ABN4F02* ABN4F22*	B G R Y	Panel Thickness 0.8 to 7.5 Panel Thickness 0.8 to 7.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 33	29.6

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Round bezel and shroud (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

Mushroom Pushlock Turn Reset/Mushroom Push Turn Lock/Mushroom Pull

Package Quantity: 1

Shape	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions (All dimensions in mm.)
Mushroom Pushlock Turn Reset (*1) AVN3	1NO	AVN310N*		
AVIVS	1NC	AVN301N*		Panel Thickness 0.8 to 7.5
	1NO-1NC	AVN311N*	R	
	2N0	AVN320N*	Υ	
	2NC	AVN302N*		45.4 (1 or 2 blocks) 29.6
	2NO-2NC	AVN322N*		65.4 (3 or 4 blocks) 23.6
Mushroom Push Turn Lock AJN3	1NO	AJN310N*		Panel Thickness 0.8 to 7.5
AJNS	1NC	AJN301N*	D.	
	1NO-1NC	AJN311N*	B G	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	2N0	AJN320N*	R	
	2NC	AJN302N*	_ '	45.4 (1 or 2 blocks) 29.6 23.6
	2NO-2NC	AJN322N*		
Mushroom Pull AZN3	1NO	AZN310N*		
AZNO	1NC	AZN301N*		Panel Thickness 0.8 to 7.5
	1NO-1NC	AZN311N*	B G	
	2N0	AZN320N*	R	4 - dg - d
	2NC	AZN302N*	_ Y	45.4 25.1 5.5 stroke 29.6
				H

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- . Mushroom pull has up to 2 contact blocks.
- Terminal screws: M3.5
- Integrated terminal cover
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).

Pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Push Turn Lock

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

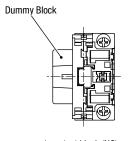
<u>Pull</u>

Pulling the button operates the contacts, and releasing the button return the contacts.

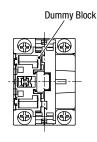
Pull contact operation

Contact	AZ	N3
Contact	Normal	Pull
1NO	o ₁ o	- - -
2NO-2NC	ის •_•	0 0 e1e
2N0	مړه مړه	00 00
2NC	•••	● 1● ● 1●

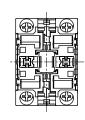
Bottom View (for non-illuminated pushbuttons and selector switches)



1 contact block (NO) (NC: opposite position)



3 contact blocks



2/4 contact blocks

- See B-348 for wiring.
- Integrated terminal cover

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

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LED Illumination

Operator

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Pilot Lights

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Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator

> Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

> TWND ARN CS

LED Illuminated Extended/Extended with Half Shroud/Extended with Full Shroud

Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code	Dimens Page
Extended				1NO-1NC	ALN22211DN*		
LN2			24V AC/DC	2N0	ALN22220DN*		
OLN2				2NC	ALN22202DN*	R	
				1NO-1NC	ALN21611DN*	G	
1		Momentary	100/110V AC	2N0	ALN21620DN*	- Y	
		,		2NC	ALN21602DN*	A S	
of the				1NO-1NC	ALN22611DN*	PW	
			200/220V AC	2N0	ALN22620DN*		
(24VAC/D	C)			2NC	ALN22602DN*		
,	BA9S			1NO-1NC	A0LN22211DN*		
			24V AC/DC	2N0	A0LN22220DN*		
The same of the sa			247710750	2NC	AOLN22202DN*	R	
N. S.				1NO-1NC	AOLN21611DN*	⊢ ï	
		Maintained	100/110V AC	2NO	AOLN21620DN*	Y	
W C		Maintaineu	100/110V AC	2NC	AOLN21602DN*	— A	
100						S PW	
With transfo	mer		200/2201/ 40	1NO-1NC	AOLN22611DN*	- PVV	
(100/110V			200/220V AC	2NO	AOLN22620DN*	\dashv	
xtended with Half Sh				2NC	AOLN22602DN*		
xtended with Haii Sh LGN2	roud		0.414.40/D0	1NO-1NC	ALGN22211DN*		
OLGN2			24V AC/DC	2N0	ALGN22220DN*	_	
_				2NC	ALGN22202DN*	R	
				1NO-1NC	ALGN21611DN*	G Y	
		Momentary	100/110V AC	2N0	ALGN21620DN*	Ä	
				2NC	ALGN21602DN*	S	
The state of the s				1NO-1NC	ALGN22611DN*	PW	
			200/220V AC	2N0	ALGN22620DN*		
(24V AC/D	C) BA9S			2NC	ALGN22602DN*		B-3
	DAGO			1NO-1NC	AOLGN22211DN*		D 0
			24V AC/DC	2N0	AOLGN22220DN*		
				2NC	AOLGN22202DN*	R	
				1NO-1NC	AOLGN21611DN*	G	
		Maintained	100/110V AC	2N0	AOLGN21620DN*	Υ	
				2NC	AOLGN21602DN*	– A S	
				1NO-1NC	AOLGN22611DN*	PW	
With transfo			200/220V AC	2N0	AOLGN22620DN*		
(100/110V	AC)			2NC	AOLGN22602DN*	7	
xtended with Full Sh	roud			1NO-1NC	ALFN22211DN*		
LFN2			24V AC/DC	2NO	ALFN22220DN*	7	
OLFN2			217,107,00	2NC	ALFN22202DN*	R	
				1NO-1NC	ALFN21611DN*	G	
		Momentary	100/110V AC	2NO	ALFN21611DN* ALFN21620DN*	Ϋ́	
		ivionientary	100/110V AC	2NC		_ A	
				1NO-1NC	ALFN21602DN*	S PW	
-			200/2201/ 40		ALFN22611DN*	- PVV	
(24V AC/D	C)		200/220V AC	2N0	ALFN22620DN*	-	
,	BA9S			2NC	ALFN22602DN*		
			0.014.075.0	1NO-1NC	AOLFN22211DN*	-	
The same			24V AC/DC	2N0	AOLFN22220DN*	-	
1				2NC	AOLFN22202DN*	R	
				1NO-1NC	AOLFN21611DN*	G Y	
		Maintained	100/110V AC	2N0	AOLFN21620DN*	A	
				2NC	AOLFN21602DN*	S	
				1NO-1NC	AOLFN22611DN*	PW	
With transfo (100/110V			200/220V AC	2N0	AOLFN22620DN*		
///////////////////////////////////////	AUI		1	2NC	AOLFN22602DN*	1	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

 Illuminated pushbuttons have an LED lamp installed.
 Round bezel (metal): Chrome-plated

- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- See B-308 for other contact configurations and gold-plated silver contacts.
 See B-314 for bottom view.
 Terminal screws: M3.5
- · Integrated terminal cover

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

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Miniature

Pilot Lights

TWND

CS

LED Illuminated Mushroom (ø40)/Mushroom Pushlock Turn Reset/Mushroom Push Turn Lock

Package Quantity: 1

						га	ckage Quantity: 1
Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code	Dimensions Page
Mushroom (ø40)				1NO-1NC	ALN32211DN *		
ALN3 AOLN3			24V AC/DC	2N0	ALN32220DN *		
AULINS				2NC	ALN32202DN *	R	
				1NO-1NC	ALN31611DN *	G	
		Momentary	100/110V AC	2N0	ALN31620DN *	Y	
				2NC	ALN31602DN *	S	
				1NO-1NC	ALN32611DN *	PW	
			200/220V AC	2N0	ALN32620DN *		
(24V AC/DC)	DAGC			2NC	ALN32602DN *		
	BA9S			1NO-1NC	AOLN32211DN *		
			24V AC/DC	2N0	AOLN32220DN *		
				2NC	AOLN32202DN *	R	
				1NO-1NC	AOLN31611DN *	G	
		Maintained	100/110V AC	2N0	AOLN31620DN *	Y	
				2NC	AOLN31602DN *	S	
				1NO-1NC	AOLN32611DN *	PW	
With tranformer			200/220V AC	2N0	AOLN32620DN *		
(100/110V AC)				2NC	AOLN32602DN *		B-315
Mushroom Pushlock Turn Reset				1NO-1NC	AVLN32211DN *		D-313
AVLN3 (*1)			24V AC/DC	2N0	AVLN32220DN *		
				2NC	AVLN32202DN *		
				1NO-1NC	AVLN31611DN *]	
	BA9S	_	100/110V AC	2N0	AVLN31620DN *	R	
				2NC	AVLN31602DN *		
				1NO-1NC	AVLN32611DN *		
			200/220V AC	2N0	AVLN32620DN *]	
(24V AC/DC)				2NC	AVLN32602DN *		
Mushroom Push Turn Lock				1NO-1NC	AJLN32211DN *		
AJLN3			24V AC/DC	2N0	AJLN32220DN *]	
				2NC	AJLN32202DN *	R	
				1NO-1NC	AJLN31611DN *	G	
	BA9S	_	100/110V AC	2N0	AJLN31620DN *	Ϋ́	
				2NC	AJLN31602DN *	A	
				1NO-1NC	AJLN32611DN *	PW	
			200/220V AC	2N0	AJLN32620DN *		
(24V AC/DC)				2NC	AJLN32602DN *]	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Illuminated pushbuttons have an LED lamp installed.
- Round bezel (metal): Chrome-plated
- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- See B-308 for other contact configurations and gold-plated silver contacts.
- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN or HN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- Terminal screws: M3.5
- · Integrated terminal cover

Illuminated pushbutton operation

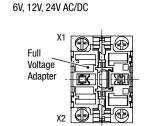
Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise. $\label{eq:constraint}$

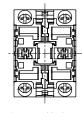
Push Turn Lock

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

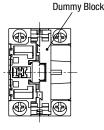
Bottom View (for illuminated pushbuttons, selector switches, and pilot lights)



1 contact block

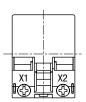


3 contact blocks

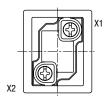


2/4 contact blocks





110V DC, 380V AC or over



DC-DC converter unit Terminal No. X1: positive Terminal No. X2: negative

• See B-348 for wiring.



Control Boxes

Safety Products

Power Supplies

LED Illumination

Controllers Operator Interfaces Sensors AUTO-ID

Emergency Stop Switches

> Enabling Switches

Dimensions (Illuminated Pushbuttons)

Extended, LED illuminated (momentary/maintained)

All dimensions in mm.

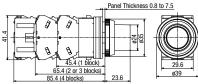
ALN2/AOLN2 (terminal screws M3.5)

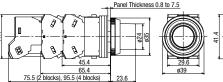
Integrated terminal cover

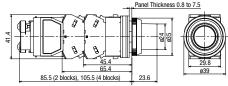
6, 12, 24V AC/DC · Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below)

110V DC/380V AC or over





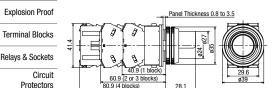


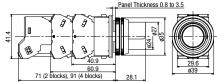
Extended with Half Shroud, LED illuminated (momentary/maintained) ALGN2/AOLGN2 (terminal screws M3.5) Integrated terminal cover

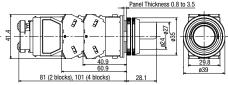
6, 12, 24V AC/DC· Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below)

110V DC/380V AC or over





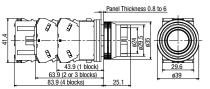


Extended with Full Shroud, LED illuminated (momentary/maintained) ALFN2/AOLFN2 (terminal screws M3.5) Integrated terminal cover

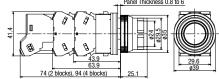
6, 12, 24V AC/DC · Without LED Lamp

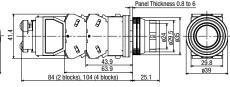
100/110V AC, 200/220V AC (240V AC or below)

110V DC/380V AC or over



Mushroom (ø40), LED illuminated (momentary/maintained)





Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

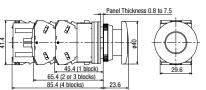
TWND ARN CS ALN3/AOLN3 (terminal screws M3.5)

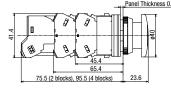
Integrated terminal cover

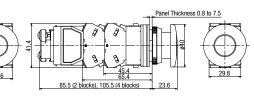
6, 12, 24V AC/DC · Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below)

110V DC/380V AC or over







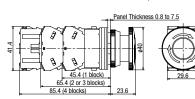
Mushroom Pushlock Turn Reset, LED illuminated

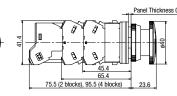
AVLN3 (terminal screws M3.5) 6, 12, 24V AC/DC · Without LED Lamp Integrated terminal cover

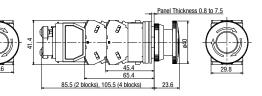
100/110V AC, 200/220V AC

110V DC/380V AC or over

110V DC/380V AC or over





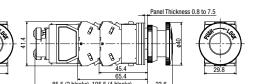


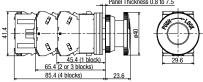
Mushroom Push Turn Lock, LED illuminated AJLN3 (terminal screws M3.5)

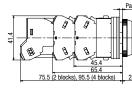
6, 12, 24V AC/DC · Without LED Lamp

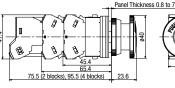
Integrated terminal cover

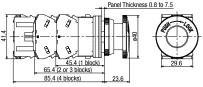
100/110V AC, 200/220V AC











Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature
Pilot Lights

TWND

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ASN Selector Switches (Knob Operator)

Package Quantity: 1

Shape	Knob Opera ASN	tor						Ô					rackage quality
		Contact C	Configuration	n			Maintained	Spring Return from Right		Spring	Retur	n from	Left
		Contact	Block		perato		1 2	1 • 2	Contact	Block		rator ition	1, 2
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
90°	1NO (10)	① ②	NO —	Dun	● nmy B	lock	ASN210N	ASN2110N	① ②	NO —	•		ASN2210N
2-position	1NO-1NC (11)	① ②	NO NC	•	•		ASN211N	ASN2111N	① ②	NO NC	•	•	ASN2211N
	2NO (20)	0	NO NO		•		ASN220N	ASN2120N	0	NO NO	•		ASN2220N
	2NO-2NC	① ②	NO NC	•	•		ASN222N	ASN2122N	0	NO NC	•	•	ASN2222N
	(22)	3 4	NO NC	•	•		ASNZZZN	ASNZTZZN	3 4				ASNZZZZN
		Contact C	configuration				Maintained	Spring Return from Right	Spring	g Return fro	om Lef	t	Spring Return Two-way
	Contact	Contact			perato Positio		1 0 2	1 0 2			1 0 2		
		Mounting Position	Contact	1	0	2	V						
	2NO (20)	① ②	NO NO	•		•	ASN320N	ASN3120N		ASN3220N	N		ASN3320N
	2NC (02)	① ②	NC NC				ASN302N	ASN3102N		ASN3202N	N		ASN3302N
	2NO-2NC	① ②	NO NO	•		•							
45° 3-position	(22)	3	NC NC				ASN322N	ASN3122N		ASN3222N	N		ASN3322N
o-hosinon	4N0	0 2	NO NO	•		•							
	(40)	3	NO NO	•		•	ASN340N	ASN3140N		ASN3240N	N		ASN3340N
	4NC	① ②	NC NC			Š				ASN3204N			
	(04)	3 4	NC NC				ASN304N	ASN3104N			ASN3304N		
	☆ 20	① ②	NO NO	•		•	☆ ASN33SN-243	_		_			
	3S	<u>3</u>	NC —	Dun	nmy B	lock	ASN33SN-243						

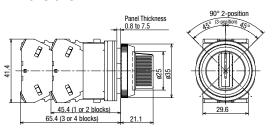
- Knob: Black
- Round bezel (metal): Chrome-plated
- Selector switches with 1 or 3 contact blocks have a dummy block.
- Knob operator can be installed at 45-degree intervals in addition to the positions shown in the above table.
- See B-321 to B-322 for other contact configurations.
 Turn the operator to each position accurately.

Contact Block Mounting Position

- Selector switches with ☆ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Dimensions

All dimensions in mm.



Terminal Screws: M3.5

Terminal cover: integrated



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ASN-□ Selector Switches (Lever Operator)

Package Quantity: 1

Lever Operator ASN□L Shape APEM Spring Return Contact Configuration Spring Return from Left Maintained from Right Control Boxes Operator Operator Contact Block Contact Block Position Position Emergency Contact Stop Switches Mounting Mounting Contact 2 1 Contact Enabling Position Position Switches 1N0 1 NO • 1 NO ASN2L10N ASN21L10N ASN22L10N Safety Products (10)2 **Dummy Block** 2 2-position 1NO-1NC 1 NO 1 NO • **Explosion Proof** ASN2L11N ASN21L11N ASN22L11N (11)2 NC • 2 NC • Terminal Blocks • 1 1 N0 NO 2N0 ASN2L20N ASN21L20N ASN22L20N (20)2 NO 2 NO Relays & Sockets 1 NO 1 N0 Circuit 2 2 2NO-2NC NC • NC lacktriangleProtectors ASN2L22N ASN21L22N ASN22L22N (22)3 NO • 3 NO • **Power Supplies** 4 NC • 4 NC • Spring Return Spring Return LED Illumination Contact Configuration Maintained Spring Return from Left from Right Two-way Controllers **Operator** Contact Block Position Operator Contact Mounting Contact 1 2 0 Position Sensors 1 NO • 2N0 ASN3L20N ASN31L20N ASN32L20N ASN33L20N AUTO-ID (20)2 NO • 1 N0 2NC ASN3L02N ASN31L02N ASN33L02N ASN32L02N (02)2 N0 1 NO Flush Silhouette 2NO-2NC 2 NO ASN3L22N ASN31L22N ASN32L22N ASN33L22N (22)3 NO 45° ø16 3-position 4 N0 1 N0 ø22 2 NO • 4N0 ASN3L40N ASN31L40N ASN32L40N ASN33L40N (40)3 N0 • 4 NO Miniature 1 NO Pilot Lights 4NC 2 N0 ASN3L04N ASN31L04N ASN32L04N ASN33L04N (04)3 NO 4 N0 1 N0 ☆ 3S NO 2 ASN3L3SN-243 3 NO

Lever: Black

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- Round bezel (metal): Chrome-plated
- Selector switches with 1 or 3 contact blocks have a dummy block.

4

Knob operator can be installed at 45-degree intervals in addition to the positions shown in the above table.

Dummy Block

See B-321 to B-322 for other contact configurations.
 Turn the operator to each position accurately.

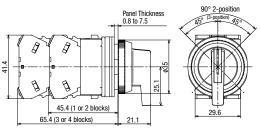
- Selector switches with
 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold contact.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions

All dimensions in mm.



Terminal Screws: M3.5

Terminal cover: integrated

ASN-□**K** Key Selector Switches

Key Selector (Key No. 0)

Package Quantity: 1

Shape	ASN□K	(NO) NO. 0)												ghts
							-4							APEM
		Contact C	onfiguratio	n			Maintained	Spring Return from Right		Spring	Return	from I	_eft	Switches & Pilot Lights
		Contact	Block		perat Positio		1 2	1 • 2	Contact	Block		rator ition	2 جد 1	Control Boxes
	Contact	Mounting Position	Contact	1	2	""			Mounting Position	Contact	1	2		Emergency Stop Switches
	1NO	1 03111011	NO		•				①	NO	•			Enabling Switches
90°	(10)	2	_	Dur	nmy E	Block	ASN2K10N	ASN21K10N	2	_	-	_	ASN22K10N	Safety Products
2-position	1NO-1NC	①	NO		•		ASN2K11N	ASN21K11N	0	NO	•		ASN22K11N	Explosion Proof
	(11)	2	NC	•			ASNZKITN	ASNZIKITN	2	NC		•	ASNZZKTIN	Explosion From
	2N0	①	NO		•		ASN2K20N	ASN21K20N	0	NO	•		ASN22K20N	Terminal Blocks
	(20)	2	NO NO		•				2	NO NO	•			Relays & Sockets
		①	NO NC		•	-			①	NO NC	•	•	<u> </u> 	Circuit
	2NO-2NC (22)	3	NO NO	•	•	-	ASN2K22N	ASN21K22N	3	NC NO	•	•	ASN22K22N	Protectors
	(22)	4	NC	•					3	NC		•		Power Supplies
			onfiguration	n			Maintained	Spring Return from Right		Return fro	m Lef	t	Spring Return Two-way	LED Illumination
		Contact	Plack		perat									Controllers
	Contact	Mounting	Contact	1	Positio	n 2	1 0 2	1 0 2		1 0 2			1 0 2	Operator Interfaces
	POSITION NO •									Sensors				
	(20)	2	NO NO			•	ASN3K20N	ASN31K20N		ASN32K20	N		ASN33K20N	AUTO-ID
	2NC	0	NC											i ———
	(02)	2	NC				ASN3K02N	ASN31K02N		ASN32K02	N		ASN33K02N	
		①	NO	•										Ì
	2NO-2NC	2	NO			•	ASN3K22N	ASN31K22N		ASN32K22	N		ASN33K22N	Flush Silhouette
45°	(22)	3	NC				ASIVSKZZIV	ASNSTRZZN	'	HONOZNZZ	IV		ASNOSKZZN	ø16
3-position		4	NC											
		①	NO	•										ø22
	4NO	2	NO NO			•	ASN3K40N	ASN31K40N		ASN32K40	N		ASN33K40N	ø30
	(40)	<u>3</u>	NO NO	•										
		1	NC											Miniature
	4NC	2	NC		5									Pilot Lights
	(04)	3	NC				ASN3K04N	ASN31K04N		ASN32K04	N		ASN33K04N	
	` ′	4	NC											
		①	NO	•										1
	☆ 3S	2	NO			•	☆							TWN
	33	3	NC		•		ASN3K3SN-243	_		_			_	TWND
		4	_	Dur	nmy E	Block]

- Cylinder: Chrome-plated
- Round bezel (metal): Chrome-plated
- Key selector switches with 1 or 3 contact blocks have a dummy block.
- See B-321 to B-322 for other contact configurations.
- On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See $\ensuremath{\text{B-308}}$ for specifying key retained positions.

Contact Block Mounting Position



- Key selector switch is supplied with two standard keys.
 (1) Insert the key completely before turning the key, otherwise failure may result.
 (2) Turn the operator to each position accurately.

Different key number is available upon request. Contact IDEC.

- \bullet Selector switches with $\stackrel{\iota}{\bowtie}$ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
 See B-312 for bottom view.

Dimensions

All dimensions in mm. 90° 2-position Panel Thickness 16.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks)

Terminal Screws: M3.5

Terminal cover: integrated

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ASN-□**K** Key Selector Switches

Package Quantity: 1

Key Selector (Key No. 24401) ASN□K Shape APEM Spring Return **Contact Configuration** Maintained Spring Return from Left from Right Control Boxes Operator Operator Contact Block Contact Block Position Position Emergency Contact Mounting Mounting Stop Switches Contact 1 2 Contact 1 2 Position Position Enabling Switches 1N0 1 NO lacktriangleASN2K10N-ASN21K10N-1 NO ASN22K10N-Safety Products (10)N024401 N024401 N024401 2 **Dummy Block** 2 1NO-1NC 1 NO ASN2K11N-ASN21K11N-1 NO • ASN22K11N-2-position **Explosion Proof** N024401 (11)2 NC • N024401 N024401 2 NC Terminal Blocks 2N0 1 NO • ASN2K20N-ASN21K20N-1 NO • ASN22K20N-N024401 N024401 (20)2 NO • N024401 2 NO • Relays & Sockets 1 NO lacktriangle1 NO • Circuit 2NO-2NC 2 NC • ASN2K22N-ASN21K22N-2 NC • ASN22K22N-Protectors N024401 N024401 N024401 (22)3 NO • 3 NO • **Power Supplies** 4 NC 4 • NC Spring Return Spring Return LED Illumination **Contact Configuration** Maintained Spring Return from Left from Right Two-way Controllers **Operator** Contact Block Position Operator Contact Mounting Interfaces Contact 1 0 2 Position Sensors 2N0 1 NO ASN3K20N-ASN31K20N-ASN32K20N-ASN33K20N-N024401 N024401 N024401 N024401 AUTO-ID (20)2 N0 1 NC 2NC ASN3K02N-ASN31K02N-ASN32K02N-ASN33K02N-N024401 (02)N024401 N024401 N024401 2 NC 1 NO 2 N0 Flush Silhouette 2NO-2NC ASN3K22N-ASN31K22N-ASN32K22N-ASN33K22N-N024401 N024401 N024401 N024401 (22)NC 3 45° ø16 4 NC 3-position ① N0 ø22 2 N0 • 4N0 ASN3K40N-ASN31K40N-ASN32K40N-ASN33K40N-(40)N024401 N024401 N024401 N024401 3 NO • 4 NO Miniature 1 NC Pilot Lights NC 4NC 2 ASN3K04N-ASN31K04N-ASN32K04N-ASN33K04N-(04)3 NC N024401 N024401 N024401 N024401 4 NC 1 N0 2 N0 • ☆ ASN3K3SN-

243-N024401

- Cylinder: Chrome-plated
- Round bezel (metal): Chrome-plated

38

• Key selector switches with 1 or 3 contact blocks have a dummy block.

3

4

- See B-321 to B-322 for other contact configurations.
- On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See B-308 for specifying key retained positions.

NC

Dummy Block

Contact Block Mounting Position



- Key selector switch is supplied with two standard keys.
- (1) Insert the key completely before turning the key, otherwise failure may result.
- (2) Turn the operator to each position accurately.
- Different key number is available upon request. Contact IDEC.
- Selector switches with
 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Dimensions

Panel Thickness
0.8 to 7.5

45.4 (1 or 2 blocks)
65.4 (3 or 4 blocks)
39

Terminal Screws: M3.5



All dimensions in mm.

Terminal cover: integrated

For more information, visit https://www.idec-emea.com

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Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

ASLN Illuminated Selector Switches (LED)

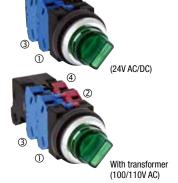
Package Quantity: 1

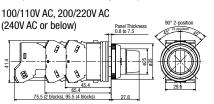
								_						rackaye u	uunuty. 1	,
Shape	Illuminate ASLN	ed Selector	Switches	s (BA	19 S	Base)	(24V AC/DC)								
		Contact Co	onfigurati	on				Maintained	Spring Return from Right		Sprin	ng Ret	urn fro	om Left		
		Contact	Block		oera ositi	ntor ion	Rated Voltage	1 2	1 2	Contact	Block	Ope Pos	rator	1. 2	Color	-
	Contact	Mounting Position	Contact	1	2		Johnson			Mounting Position	Contact		2			-
등	4110 4110	①	NO		•		24V AC/DC	ASLN22211DN*	ASLN212211DN*	0	NO	•		ASLN222211DN*		1
2-position	1NO-1NC	2	NC	•		7	100/110V AC	ASLN21611DN*	ASLN211611DN*	2	NC		•	ASLN221611DN*	1	-
2-p	(11)						200/220V AC	ASLN22611DN*	ASLN212611DN*					ASLN222611DN*	R	۱.
06	ONIO	1	NO				24V AC/DC	ASLN22220DN*	ASLN212220DN*	1	NO	•		ASLN222220DN*	G	l
"	2NO (20)	2	NO				100/110V AC	ASLN21620DN*	ASLN211620DN*	2	NO	•		ASLN221620DN*	Υ	-
	(20)						200/220V AC	ASLN22620DN*	ASLN212620DN*					ASLN222620DN*	Α	ĺ
		1	NO				24V AC/DC	ASLN22222DN*	ASLN212222DN*	1	NO	•		ASLN222222DN*	S	-
	2NO-2NC	2	NC	•			100/110V AC	ASLN21622DN*	ASLN211622DN*	2	NC		•	ASLN221622DN*	PW	١.
	(22)	3	NO		•		200/220V AC	ASLN22622DN*	ASLN212622DN*	3	NO	•		ASLN222622DN*]	
		4	NC	•			_	_	_	4	NC		•	_] -
		Contact Co	onfigurati	on				Maintained	Spring Return from Right	Spring	Return f	rom L	eft	Spring Return Two-Way		
	Contact	Contact	Block		pera osit	ator ion	Rated Voltage	1 0 2	1 0 2		1, 0	2		1 0 2	Color Code	-
	Comaci	Mounting Position	Contact	1	0	2		$\overline{}$			<u> </u>					-
	2N0	1	NO	•			24V AC/DC	ASLN32220DN*	ASLN312220DN*	ASL	N32222	ODN*		ASLN332220DN*] .
	(20)	2	NO			•	100/110V AC	ASLN31620DN*	ASLN311620DN*	ASL	N32162	ODN*		ASLN331620DN*		
	(20)						200/220V AC	ASLN32620DN*	ASLN312620DN*		N32262			ASLN332620DN*		-
	2NC	0	NC				24V AC/DC	ASLN32202DN*	ASLN312202DN*	ASL	N32220	2DN*		ASLN332202DN*		
tion	(02)	2	NC				100/110V AC	ASLN31602DN*	ASLN311602DN*		N32160			ASLN331602DN*		-
45° 3-position	(02)						200/220V AC	ASLN32602DN*	ASLN312602DN*		N32260			ASLN332602DN*		
3-6		1	NO	•		_	24V AC/DC	ASLN32222DN*	ASLN312222DN*	1	N32222			ASLN332222DN*	R	
12°	2NO-2NC	2	NO NO			•	100/110V AC	ASLN31622DN*	ASLN311622DN*		.N32162			ASLN331622DN*	G	-
7	(22)	3	NC				200/220V AC	ASLN32622DN*	ASLN312622DN*	ASL	N32262	2DN*		ASLN332622DN*	Υ	-
		4)	NC			_			_					_	A	
		①	NO	•		1	24V AC/DC	ASLN32240DN*	ASLN312240DN*		N32224			ASLN332240DN*	S	-
	4N0	2	NO			•	100/110V AC	ASLN31640DN*	ASLN311640DN*		N32164			ASLN331640DN*	PW	
	(40)	3	NO	•		-	200/220V AC	ASLN32640DN*	ASLN312640DN*	ASL	N32264	ODN*		ASLN332640DN*	-	
		4	NO			•	_		_					_		H
		0	NC		L		24V AC/DC	ASLN32204DN*	ASLN312204DN*	1	N32220			ASLN332204DN*		
	4NC	2	NC			\perp	100/110V AC	ASLN31604DN*	ASLN311604DN*		.N32160			ASLN331604DN*	-	-
	(04)	3	NC	_	L		200/220V AC	ASLN32604DN*	ASLN312604DN*	ASL	N32260	4DN*		ASLN332604DN*	-	
	1	(4)	NC				_	_	_	1	_			_		1 -

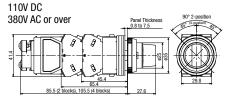
- Specify a color code in place of * in Part No.
- R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Illuminated selector switches have an LED lamp installed.
- Round bezel (metal): chrome-plated
- See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
 Illuminated selector switches of 24V AC/DC or below with 2 or 4 contact blocks have a
- See B-321 to B-322 other contact configurations.
- Turn the operator to each position accurately.
- See B-309 for gold-plated silver contacts.
- . See B-314 for bottom view.

Contact Block Mounting Position Dimensions

6, 12, 24V AC/DC Without LED Lamp







Terminal Screws: M3.5 Terminal cover: integrated

Miniature Pilot Lights

Flush Silhouette

ø16 ø22

TWND ARN

CS

All dimensions in mm.

Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

> TWND ARN CS

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks

Selector Switches Contact Configuration (90° 2-position)

					Op	perator Opera	tion and Circ	uit	
		Cont		Maint	tained 2		Return Right	Spring from	Return Left 2
0		Blo	ck				/		
Contact Configuration	Circuit Code			Knob Lever	Key	Knob Lever	Key	Knob Lever	Key
				Operator	Position	Operato	Position	Operator	Position
		Mounting	Contact	1	2	1	2	1	2
		Position							
10	Not	①	NO		•		•	•	
10	required	2	_	Dumm	y Block	Dumm	y Block	Dumm	y Block
01	Not	①	NC	•		•			•
01	required	2		Dumm	y Block	Dumm	y Block	Dumm	y Block
	☆	①	EM			(
2R	118	2	LB						
^{∠n}	☆	1	EM						
	168	2	LB						

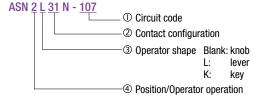
						Op	perator 0	peration	and Circ	uit		
		Cont Bloo		N	laintaine	ed 2		ring Ret rom Righ			ring Retu from Lef	
Contact Configuration	Circuit Code			Knob Lever	Key	Illumi- nated	Knob Lever	Key	Illumi- nated	Knob Lever	Key	Illumi- nated
				Opei	ator Po	sition	Opei	rator Pos	sition	Oper	ator Pos	ition
		Mounting Position	Contact	1		2	1		2	1		2
11	Not	①	NO			•			•	•		
- ''	required	2	NC	•			•					•
20	Not	①	NO			•			•	•		
20	required	2	NO			•			•	•		
02	Not	1	NC	•			•					•
- 02	required	2	NC	•			•					•
		1	NO			•			•	•		
22	Not	2	NC	•			•					•
	required	3	NO			•			•	•		
		4	NC	•			•					•
		1	NC	•			•					•
31	107	2	NO			•			•	•		
		3	NO			•			•	•		
		4	NO			•	<u> </u>		•	•		
		①	NO			•			•	•		
40	Not	2	NO			•			•	•		
	required	3	NO			•			•	•		
		4	NO			•			•			

[•] Selector switches with 🜣 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

Contact Block Mounting Position

Part No. Development





- 2: 2-position, maintained
- 21: 2-position, spring return from right 22: 2-position, spring return from left

Selector Switches Contact Configuration (45° 3-position)

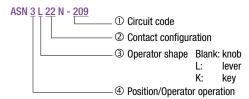
Contact Configuration Contact Doporator Position Maintained Contact Configuration Mounting Contact Contact Configuration Mounting Contact		Operator Operation and Circuit Contact Maintained Spring Return Spring Return Spring Return								Ë										
Configuration Contact Color Company Contact Color Company Contact Color Company Contact Color Contact Color Color Contact Color Contac	Contact	Circuit Codo			Оре	erator Pos	sition				fr	om Rig	ht		from Le	eft	T	wo-wa	y	jhts
Mounting Position Contact 1		Circuit Code		I					\bigvee			\bigvee			$\overline{}$	1		$\overline{}$		ΔΡΕΜ
202				Contact		_			Key			Key						Key		Switches &
11 203			ı ı	NO		U														
11		202						1	√			√			√			√		
Sometimes Some	11	203	1)									J			٠					
20	''	200					•		v			V			v					Switches
Not required 20 NO		303				•		1	√			√			√			√		Safety Products
20		Net					•				-					-				
Not required O	20				•			┨	$\sqrt{}$			$\sqrt{}$			$\sqrt{}$			$\sqrt{}$		Explosion Proof
O		i													,	-				Terminal Blocks
Not required	02								√			٧			√			√		Relays & Sockets
Not required 30 NC 40 NC					•															
Power Supplies Powe									V			V			V			V		
209 O NO		required						┨	·			•			·			•		Power Supplies
209																				LED Illumination
29								1	,											LED IIIdiiiiiddoii
22 210		209						1	√			√		_				_		
22 210			4				•	<u> </u>												Operator
22 210 3 NC 4 NO AUTO-ID 310 0 NC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								1												
AJTO-ID AJTO-ID	22	210						1	√			V			√			√		Sensors
310								-												AUTO-ID
310						•														
310 3							•	1	,											
40		310				•]	V			_			_			_		Florib O'll accept
311							•													Flush Silnouette
311 3					•		-													ø16
40 Not		311					•	-	√			√			√			√		ø22
A0					_			-												
A0					-															ø30
10		Not					•	1	,			,			,			,		Miniature
Mot required Mo Mo Mo Mo Mo Mo Mo M	40			NO	•]	V			V			√			V		Pilot Lights
04							•													
104 required 3 NC								<u> </u>												
3S 243 3 NC	04							-	√			√			√			√		
3S		required						+												TWN
3S																				TWND
3S 243 3 NC		☆			T -		•	1	,											I WIND
W W	38	243				•] '	/	-		_			_			_		ARN
																				CS

[•] Selector switches with $\stackrel{1}{>}$ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

Contact Block Mounting Position

Part No. Development





- 3: 3-position, maintained
- 31: 3-position, spring return from right
- 32: 3-position, spring return from left
- 33: 3-position, spring return two-way

[•] On selector switches with x, the contact blocks may overlap each other while turning the ring or lever operator.

Control Boxes Emergency Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator

ASBN2 Selector Pushbuttons

				tact ock	Left	Ring P	Position	Right	Button	Ring Operator
Shape	Contact Configuration	Circuit Code	DIC	JUK)	((√)	Color	
	3		Mounting			Pushl	button		Code	Part No.
			Position	Contact	Normal	Push	Normal	Push		(Ordering No.)
Ring Operator (90°2-position)		A03	1	NO		•		•		ASBN211N-A03*
ASBN2		A03	2	NC	•					AUDINZ I TIV-AUU*
	11	☆	①	NC	•				В	☆
	(1NO-1NC)	K04	2	EM		•			G	ASBN211N-K04*
		G03	①	NO		•	_	Blocked	R Y	ASBN211N-G03*
			2	NC	•		•		1	
	20 (2NO)	D01	①	NO NO		•				ASBN220N-D01*
	(ZNU)		2	NO NO				•		
			①	NO NO		•		•		
		A08	2	NC	•	•		•		ASBN222N-A08*
			3	NO NC	•	•		•		
			(4) (1)	NO NO		•		•		
		,	2	NO NO		_		•		
		☆ C10	3	NC	•					☆ ASBN222N-C10*
			4	NC		_				AJDIVZZZIV-UTU*
			0	NO NO		_				
			2	NO				•		
		D10	3	NC	•					ASBN222N-D10*
			4	NC			•			
			①	NO		•			D	
	22	☆	2	NO				•	B G	☆
	(2NO-2NC)	E10	3	NC					R	ASBN222N-E10*
			4	NC					Υ	
			①	NO				•		
		☆	2	NO		•				☆
		F10	3	NC			•			ASBN222N-F10*
			4	NC	•					
			①	NO		•				
		G10	2	NO		•		Blocked		ASBN222N-G10*
		u i o	3	NC	•		•	Dioditou		AUDINZZZIN UTU
			4	NC	•		•			
			1	NC	•					
		☆	2	NC	•					☆
		K15	3	EM		•				ASBN222N-K15*

TWND

Miniature Pilot Lights

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

ARN

CS

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Bezel (metal): Chrome-plated
- Circuit code G: The pushbutton does not operate when the ring operator is turned to the right position.
- Circuit codes E and F: The right and left NC contact blocks on circuit code E or F may overlap each other while turning the ring operator. The NO and NC contact blocks on circuit code F may overlap each other while pressing the button.

EM

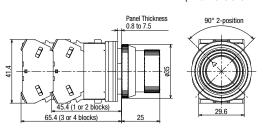
- When using the selector pushbutton, do not turn the ring operator with the pushbutton depressed. Otherwise, damage or failure may be caused.
- Selector switches with 🛱 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions Ring operator (90° 2-position)

(All dimensions in mm.)



Terminal Screws: M3.5

Terminal cover: integrated

Pilot Lights Round, Square Extended, Rectangular (Marking)

Package Quantity: 1

Shape	Illumination	Base	Rated Voltage	Part No. (Ordering No.)	Color Code	LED Lamp Part No.	Dimensions Page	
Round APN1			24V AC/DC	APN122DN*	R, G, Y, A, S, PW	LSRD-2		
AFNI			100/110V AC	APN116DN*	R, G, Y, A, S, PW			
(24V AC/DC)	LED	BA9S	200/220V AC	APN126DN*	R, G, Y, A, S, PW	LSRD-6		
Square Extended UPQN3B		BA9S	24V AC/DC	UPQN3B22D*	R, G, Y, A, S, PW	LSRD-2		
	LED		100/110V AC	UPQN3B16D*	R, G, Y, A, S, PW	LSRD-6	B-325	
(24V AC/DC)			200/220V AC	UPQN3B26D*	R, G, Y, A, S, PW	LSND-0		
Rectangular (Marking) UPQN4			24V AC/DC	UPQN422D*	R, G, Y, A, S, PW	LSRD-2		
	LED	BA9S	100/110V AC	UPQN416D*	R, G, Y, A, S, PW	LODD		
(24V AC/DC)			200/220V AC	UPQN426D*	R, G, Y, A, S, PW	LSRD-6		

Specify a color code in place of * in Part No.
 R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

- Round bezel (metal): chrome-plated
- Square bezel (metal): chrome-plated
- Pilot lights have an LED lamp installed.
- See B-346 for the marking plate size of rectangular pilot lights.
- See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- Terminal cover is installed on pilot lights for electric shock prevention.

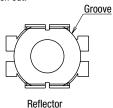
Type	Terminal Cover	Quantity
6V, 12V, 24V AC/DC	APN-PVL	1
100V/110V AC, 200/220V AC	N-VL3	1
110V DC	N-VL3	1

Note: DC-DC converter types are not approved by UL and CSA, and not CE compliant.

• See B-314 for bottom view.

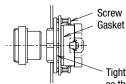
Reflector

- The lamp housing of the square LED illuminated pilot lights has a built-in reflector.
- Make sure that the reflector does not fall off when removing the lens or making plate.
- 3. When replacing the LED lamp of UPQN4 (rectangular), use a lamp holder tool (OR-55).
- 4. To remove the reflector, insert a flat screwdriver inside the groove of the reflector and lightly push out.



Panel Mounting of Square Pilot Lights

- 1. Tighten the square bezel to the operator and position the bezel correctly.
- 2. Lightly tighten the screw to secure the pilot light on the panel.
- 3. After tightening, do not turn the square bezel, otherwise it may fall off.



Tighten the screw lightly so that the panel does not bend. Recommended tightening torque: 0.15 Nm APEM

Switches &

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof
Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWN

TWND

ARN

CS

Control Boxes

Emergency Stop Switches Enabling

Switches Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Power Supplies LED Illumination Controllers

Circuit Protectors

Operator

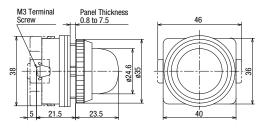
Interfaces

Sensors AUTO-ID

Dimensions (Pilot Light)

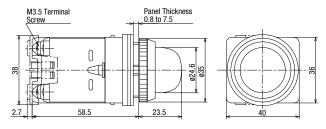
Round APN1

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp



Terminal screws: M3

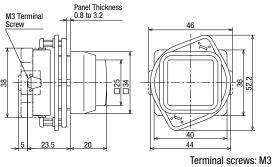
100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



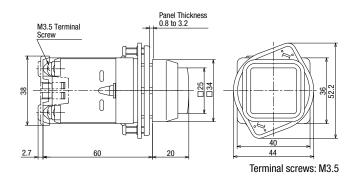
Terminal screws: M3.5

Square Extended UPQN3B

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp



100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



Flush Silhouette

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Miniature Pilot Lights

TWND

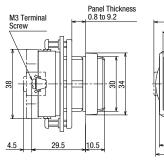
ARN

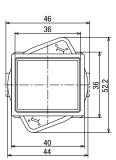
CS

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp

Rectangular (Marking)

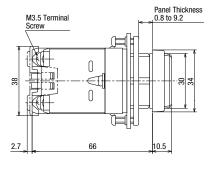
UPQN4

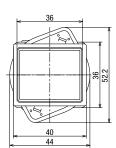




Terminal screws: M3

100 to 480V AC, 110V DC (Terminal Cover: N-VL3)





Terminal screws: M3.5

• See B-349 for wiring.

Flush/Extended/Extended with Half Shroud/Extended with Full Shroud

Package Quantity: 1

						Package Quantity: 1	. ≝ _
Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)	ot Lights
Flush		1NO	ABD110N*	В			
ABD1 AOD1		1NC	ABD101N*	G R			
1,051	Momentary	1NO-1NC	ABD111N*	Ϋ́			APEM
		2N0	ABD120N*	S	F	lanel Thickness	Switches &
		2NC	ABD102N*	W			Pilot Lights
		2NO-2NC	ABD122N*				Control Boxes
		1NO	AOD110N*	B G			Emergency
		1NC 1NO-1NC	A0D101N* A0D111N*	R	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks)	29.4	Stop Switches
	Maintained	2N0	AODITIN* AODIZON*	Υ	65.4 (5 01 4 DIOCKS) S	!→ 4U →	Enabling Switches
		2NC	AOD120N*	S W			Safety Products
		2NO-2NC	AOD102N*	Note			— Curety 1 roudets
Extended		1NO	ABD210N*				Explosion Proof
ABD2		1NC	ABD201N*	В			Terminal Blocks
AOD2		1NO-1NC	ABD211N*	- G R			
	Momentary	2N0	ABD220N*	Υ	<u> </u>	anel Thickness	Relays & Sockets
		2NC	ABD202N*	S		0.8 to 7.5	Circuit Protectors
		2NO-2NC	ABD222N*	W			Power Supplies
		1NO	A0D210N*	D	4		- Tower Supplies
		1NC	A0D201N*	B G	45.4 (1 or 2 blocks)		LED Illumination
	Maintained	1NO-1NC	A0D211N*	R Y S W	65.4(3 or 4 blocks) 14	14 29.4	Controllers
	Walitaliou	2N0	A0D220N*				Operator
		2NC	A0D202N*				Interfaces
Extended with Half Shroud		2NO-2NC	ADD222N*				Sensors
ABGD2		1NO	ABGD210N*	В			AUTO-ID
AOGD2		1NC 1NO-1NC	ABGD201N*	G			AUTU-ID
	Momentary	2NO	ABGD211N* ABGD220N*	R Y	Do	and Thinkson	
		2NC	ABGD220N*	S	Pa 0.8	Panel Thickness 0.8 to 3.5	
		2NO-2NC	ABGD202N*	W			Flush Silhouette
		1NO	AOGD210N*		4.14	638 638 638 638 638 638 638 638 638 638	
		1NC	AOGD201N*	В			ø16
		1NO-1NC	AOGD211N*	- G R	40.9 (1 or 2 blocks) 18 60.9 (3 or 4 blocks) 21	3.5 0.5	ø22
	Maintained	2N0	AOGD220N*	Υ	H	— H — · · · · H	#20
		2NC	AOGD202N*	S			ø30
		2NO-2NC	AOGD222N*	W			Miniature
Extended with Full Shroud		1NO	ABFD210N*	В			Pilot Lights
ABFD2 AOFD2		1NC	ABFD201N*	G			
	Momentary	1NO-1NC	ABFD211N*	R			
		2N0	ABFD220N*	Y S	F	Panel Thickness 0.8 to 6 ø39	
		2NC	ABFD202N*	W			TWN
		2NO-2NC	ABFD222N*		8 8		TWND
		1NO 1NC	AOFD210N* AOFD201N*	В	4 8 8		
		1NO-1NC	AOFD201N* AOFD211N*	G	45.4 (1 or 2 blocks)	14 29.4	ARN
	Maintained	2N0	AOFD211N* AOFD220N*	R Y	65.4 (3 or 4 blocks)	6.5 40	CS
		2NC	AOFD220N*	S			
		2NO-2NC	AOFD202N*	W			
		ZINO-ZINO	MUI DEEEINA	1	l .		J

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

ABD1, AOD1 with button color of B (black), G (green), or (R) red

Supply of color buttons B, G, R has been discontinued for ABD1/AOD1 without color code. When ordering, make sure to specify the required button color code.

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator

> Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWN

ARN CS

Mushroom/Mushroom with Full Shroud/Jumbo Mushroom/Jumbo Mushrooms with Shallow/Deep Shroud/Pin Lock

Shape	Operation	Contact	Part No.	Button Color Codo	Dimensions	(All dimensions in n	
Mushroom		1NO	(Ordering No.) ABD310N*	Color Code			
ABD3		1NC	ABD310N*	B G			
AOD3	Momentary	1NO-1NC	ABD311N*	R			
	Wioriiciitary	2N0	ABD320N*	Y S	Panel Thickness 0.8	to 7.5 29.4	
		2NC 2NO-2NC	ABD302N* ABD322N*	W			
		1NO	A0D310N*	В	41.4	()	
		1NC	A0D301N*	G	45.4 (1 or 2 blocks)		
	Maintained	1NO-1NC	A0D311N*	R	65.4 (3 or 4 blocks) 22	40	
		2NO 2NC	AOD320N* AOD302N*	Y S			
		2NO-2NC	AOD322N*	W			
Mushroom with Full Shroud		1NO	ABGD310N*	В			
.BGD3 .OGD3		1NC	ABGD301N*	G	Panel Thickness 0.8 t	0 6.5	
oubo	Momentary	1NO-1NC 2NO	ABGD311N* ABGD320N*	R Y			
		2NC	ABGD302N*	S	848		
T.		2NO-2NC	ABGD322N*	W			
		1NO 1NC	AOGD310N*	В	43.9 (1 or 2 blocks) 63.9 (3 or 4 blocks) 23.5		
		1NO-1NC	AOGD301N* AOGD311N*	. G R		l 4 40 sl	
	Maintained	2N0	AOGD320N*	Υ			
		2NC	AOGD302N*	S W			
umbo Mushroom		2NO-2NC	AOGD322N*	VV		. 29.4	
BD4		1NO	ABD410N*		Panel Thickness 0.8 to 7.5		
	Momentary	1NC	ABD401N*	B G R Y			
		1NO-1NC	ABD411N*		41.4	(
		2N0	ABD420N*				
		2NC	ABD402N*	. '	45.4 (1 or 2 blocks)		
		2NO-2NC	ABD422N*		65.4 (3 or 4 blocks) 29	40	
umbo Mushroom with hallow Shroud		1NO	ABGD410N*		Panel Thickness 0.8 to 7.5	29.4	
BGD4		1NC	ABGD401N*				
		1NO-1NC	ABGD411N*	В			
	Momentary			G R	965	1(()))	
		2N0	ABGD420N*	Ϋ́			
		2NC	ABGD402N*		45.4 (1 or 2 blocks)		
		2NO-2NC	ABGD422N*		65.4 (3 or 4 blocks) 29	40	
umbo Mushroom with		1NO	ABFD410N*		Panel Thickness 0.8 to 7.5	29.4	
eep Shroud BFD4		1NC	ABFD401N*	1			
		1NO-1NC	ABFD411N*	В			
	Momentary			G R	4.14	 	
		2N0	ABFD420N*	Ϋ́			
		2NC	ABFD402N*		45.4 (1 or 2 blocks)		
		2NO-2NC	ABFD422N*		65.4 (3 or 4 blocks) 33	40	
in Lock (On-off Lock Type) (*1)		1NO	ABD8P10N*				
BD8P		1NC	ABD8P01N*	В		40	
		1NO-1NC	ABD8P11N*	G R		29.4	
		2N0 2NC	ABD8P20N* ABD8P02N*	Y	Panel Thickness 0.8 to 7.5	<u> </u>	
one of the state o	ow ⁰	2NO-2NC	ABD8P22N*				
in Lock (On-lock Type) (*1)		1NO	ABD8PN10N*		11.4	/ /(((-\-))) }	
ABD8PN PAGE 1		1NC	ABD8PN01N*	В			
		1NO-1NC	ABD8PN11N*	G	45.4 (1 or 2 blocks)	F CONTRACTOR	
		2N0	ABD8PN20N* ABD8PN02N*	R Y	65.4 (3 or 4 blocks) 27.5		
		2NC	ABD8PNU2N*		1		

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Round bezel (metal): Chrome-plated
- Pin Lock (On-lock type): Button can be locked in depressed position by inserting the pin (the button cannot be locked in reset position).
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-342 for maintenance parts.
- *1) The pin for ABD8P is ø4.6 mm and is not compatible with ABN8P (old series).
- See B-312 for bottom view.
- Terminal screws: M3.5
- · Integrated terminal cover

Pushlock Turn Reset/Push Turn Lock/Pull/Push-Pull

Package Quantity: 1

Shape	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions (All dimensions in mm.)
Mushroom Pushlock Turn Reset (*1) AVD3	1NO	AVD310N*		
TABLE STATE OF THE	1NC	AVD301N*		Panel Thickness 0.8 to 7.5
	1NO-1NC	AVD311N*	R	
	2N0	AVD320N*	Υ	
	2NC	AVD302N*		45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 23.6 40
	2NO-2NC	AVD322N*		00.4 (0 til 4 tillotha) 20.00 40
Mushroom Push Turn Lock AJD3	1NO	AJD310N*		
A000	1NC	AJD301N*	_	Panel Thickness 0.8 to 7.5
	1NO-1NC	AJD311N*	B G	
	2N0	AJD320N*	R Y	
	2NC	AJD302N*		45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 23.6
	2NO-2NC	AJD322N*		00.4 (3 01 4 DIUCAS) 4 25.0 4 40 4
Mushroom Pull AZD3	1NO	AZD310N*		Panel Thickness 0.8 to 7.5
	1NO-1NC	AZD311N*	B G	
	2N0	AZD320N*	R Y	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	2NC	AZD302N*		45.4 25.1 5.5 stroke 29.4 40
Mushroom Push-Pull (*2) AYD31	1NO-1NC	AYD3111N*		Panel Thickness 0.8 to 7.5
	2N0	AYD3120N*	B G R Y	
	2NC	AYD3102N*	Y	5.5 stroke 29.4 45.4 30.7

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- Mushroom pull has up to 2 contact blocks.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- *2) Push-Pull switches with red button cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

Pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

Pulling the button operates the contacts, and releasing the button return the contacts.

2-position switches with button maintained in both depressed and reset positions.

Pull contact operation

Contact	AZD3								
Contact	Normal	Pull							
1NO	о' о	9.							
2NO-2NC	ტ •_•	<u></u> 0 0 ■1●							
2N0	9,0 9,0	1° 1° 1°							
2NC	•-	•1• •1•							

Push-Pull contact operation

Contact	AYD31							
Contact	Push	Pull						
1NO	ტ •_•	0 0 11						
2N0	9,9 9,9	00 00 T 00						
2NC	<u>.</u>	a i a aia						

APEM

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWN

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Contact	AYD31							
Contact	Push	Pull						
1NO	ტ •_•	° ⊦ •						
2N0	9,9 9,9	0 0 0 1						
2NC	<u>••</u> ••	●1● ●1●						

LED Illuminated Extended/Extended with Full Shroud

Package Quantity: 1

t Lights	Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Button Color Code
0,	Extended				1NO-1NC	ALD22211DN*	
	ALD2			24V AC/DC	2N0	ALD22220DN*	7
	AOLD2				2NC	ALD22202DN*	R
APEM					1NO-1NC	ALD21611DN*	G
Switches &			Momentary	100/110V AC	2N0	ALD21620DN*	— Y — А
Pilot Lights					2NC	ALD21602DN*	S
Control Boxes					1NO-1NC	ALD22611DN*	PW
Emergency				200/220V AC	2N0	ALD22620DN*	
Stop Switches	(24V AC/DC)	BA9S			2NC	ALD22602DN*	
Enabling Switches	(211716/20)	DA95			1NO-1NC	A0LD22211DN*	
Safety Products				24V AC/DC	2N0	A0LD22220DN*	
Salety Products					2NC	A0LD22202DN*	R
Explosion Proof					1NO-1NC	A0LD21611DN*	G G
			Maintained	100/110V AC	2N0	A0LD21620DN*	— Y — А
Terminal Blocks					2NC	A0LD21602DN*	S
Relays & Sockets				200/220V AC	1NO-1NC	A0LD22611DN*	PW
Circuit	With transformer				2N0	A0LD22620DN*	
Protectors	(100/110V AC)				2NC	A0LD22602DN*	
Power Supplies	Extended with Full Shroud				1NO-1NC	ALFD22211DN*	
томст опррпоз	ALFD2			24V AC/DC	2N0	ALFD22220DN*	
LED Illumination	AOLFD2				2NC	ALFD22202DN*	R
0					1NO-1NC	ALFD21611DN*	G
Controllers			Momentary	100/110V AC	2N0	ALFD21620DN*	— Y — А
Operator Interfaces					2NC	ALFD21602DN*	S
					1NO-1NC	ALFD22611DN*	PW
Sensors				200/220V AC	2N0	ALFD22620DN*	
AUTO-ID	(24V AC/DC)	BA9S			2NC	ALFD22602DN*	
	(211716/20)	DA95			1NO-1NC	AOLFD22211DN*	
				24V AC/DC	2N0	AOLFD22220DN*	
					2NC	AOLFD22202DN*	R
Flush Silhouette					1NO-1NC	AOLFD21611DN*	G
riusii Siiilouette			Maintained	100/110V AC	2N0	AOLFD21620DN*	⊢ γ
ø16					2NC	AOLFD21602DN*	⊢ A S
					1NO-1NC	AOLFD22611DN*	PW
ø22	With transformer			200/220V AC	2N0	AOLFD22620DN*	
ø30	(100/110V AC)				2NC	AOLFD22602DN*	7
	• Specify a color code in place of * in Part No. B (red). ((groop) V (vollow) A (ambor)	• Soo R-309 for	r other contact con	figurations and gold-plated silver	contacte

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Illuminated pushbuttons have an LED lamp installed.

Extended, LED illuminated (momentary/maintained)

· Round bezel (metal): Chrome-plated

ALD2/AOLD2 (terminal screws M3.5)

6, 12, 24V AC/DC · Without LED Lamp

- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- See B-308 for other contact configurations and gold-plated silver contacts.

110V DC, 380V AC or over

110V DC, 380V AC or over

- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- See B-314 for bottom view.

Dimensions

TWN

Miniature

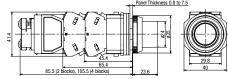
Pilot Lights

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CS

100/110V AC, 200/220V AC (240V AC or below)

100/110V AC, 200/220V AC (240V AC or below)



Extended with Full Shroud, LED illuminated (momentary/maintained) ALFD2/AOLFD2 (terminal screws M3.5) Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp

Integrated terminal cover

Panel Thickness 0.8 to 6

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

LED Illuminated Mushroom (ø40)/Mushroom Pushlock Turn Reset

Package Quantity

			,			Package Quantity: 1
Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code
Mushroom (ø40)				1NO-1NC	ALD32211DN*	
ALD3			24V AC/DC	2N0	ALD32220DN*	
AOLD3				2NC	ALD32202DN*	
				1NO-1NC	ALD31611DN*	R G Y
		Momentary	100/110V AC	2N0	ALD31620DN*	Ý
				2NC	ALD31602DN*	A S
				1NO-1NC	ALD32611DN*	
			200/220V AC	2N0	ALD32620DN*	
(24V AC/DC)	BA9S			2NC	ALD32602DN*	
	DA95			1NO-1NC	A0LD32211DN*	
		Maintained	24V AC/DC 100/110V AC 200/220V AC	2N0	AOLD32220DN*	
				2NC	A0LD32202DN*	R
				1NO-1NC	AOLD31611DN*	R G Y A W
				2N0	A0LD31620DN*	Υ
				2NC	A0LD31602DN*	Ŵ
				1NO-1NC	A0LD32611DN*	S
With transformer				2N0	AOLD32620DN*	
(100/110V AC)				2NC	A0LD32602DN*	
Mushroom Pushlock Turn Reset (*1)				1NO-1NC	AVLD32211DN*	
AVLD3			24V AC/DC	2N0	AVLD32220DN*	
				2NC	AVLD32202DN*	
				1NO-1NC	AVLD31611DN*	
	BA9S	_	100/110V AC	2N0	AVLD31620DN*	R
(24V AC/DC)				2NC	AVLD31602DN*	
				1NO-1NC	AVLD32611DN*	
			200/220V AC	2N0	AVLD32620DN*	
(2)				2NC	AVLD32602DN*	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue)
- Illuminated pushbuttons have an LED lamp installed.
- Round bezel (metal): Chrome-plated
- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- See B-308 for other contact configurations and gold-plated silver contacts.
- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- See B-314 for bottom view.

Illuminated pushbutton operation

Pushlock Turn Reset

Dimensions

Button is maintained when pressed and is reset when turned clockwise.

Flush Silhouette

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ø22

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Miniature

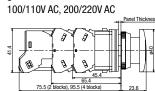
Pilot Lights

All dimensions in mm

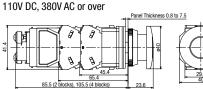
Mushroom, LED illuminated (momentary/maintained)

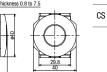
ALD3/AOLD3 (terminal screws M3.5) Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp







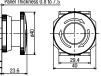


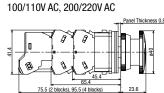
Mushroom Pushlock Turn Reset, LED illuminated

AVLD (terminal screws M3.5)

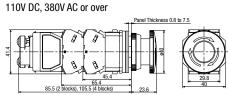
Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp









ASD Selector Switches (Knob Operator)

Package Quantity: 1

Knob Operator ASD Shape APEM Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Sensors AUTO-ID Flush Silhouette ø22 Miniature Pilot Lights TWN

	Contact Configuration						Maintained	Maintained Spring Return from Right			Spring Return from Left				
		Contact	Block		perato Positio		1 2	1 2	Contact	Contact Block		rator ition	1, 2		
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2			
	1NO	①	NO		•		AODOGON	10D0440N	①	NO	•		AODOGAGNI		
90°	(10)	2	_	Dun	nmy B	lock	ASD210N	ASD2110N	2	_	_	_	ASD2210N		
2-position	1NO-1NC	①	NO		•		ACD011N	ACD0111N	①	NO	•		ACD2211N		
	(11)	2	NC	•			ASD211N	ASD2111N	2	NC		•	ASD2211N		
	2N0	①	NO		•		ACDOOM	ACDOTON	①	NO	•		ACDOGGON		
	(20)	2	NO		•		ASD220N	ASD2120N	2	NO	•		ASD2220N		
		①	NO		•				①	NO	•				
	2NO-2NC	2	NC	•			ASD222N	40D0400N	2	NC		•	ASD2222N		
	(22)	3	NO		•		ASDZZZN	ASD2122N	3	NO	•		ASDZZZZN		
		4	NC	•					4	NC		•			
	Contact Configuration						Maintained	Spring Return from Right	Spring Return from Left		Spring Return Two-way				
	Contact	Contact	Block		perato Positio		1 0 2	1 0 2	1, 0 2			1 0 2			
		Mounting Position	Contact	1	0	2		<u> </u>							
	2N0	①	NO	•			ASD320N	ACD2120N	ASD3220N						
	(20)	2	NO			•	ASDSZUN	ASD3120N					ASD3320N		
	2NC	1	NC				ASD302N	ASD3102N	ASD3202N				ACDOCON		
	(02)	2	NC				ASDSUZIN	ASDSTOZN	MODOZUZIN				ASD3302N		
		①	NO	•					ASD3222N						
	2NO-2NC	2	NO			•	ASD322N	ASD3122N							
45°	(22)	3	NC				ASDSZZN	ASDSTZZN					ASD3322N		
3-position		4	NC												
		1	NO	•											
	4NO	2	NO			•	ASD340N	ASD3140N		ASD3240N	ı		ACD2240N		
	(40)	3	NO	•			ASDS40N	A3D3140N		A3D3Z40I	•		ASD3340N		
		4	NO			•									
		1	NC												
	4NC	2	NC				ASD304N	ASD3104N		ASD3204N			40D0004N		
	(04)	3	NC				A3D3U4N	A3D3104N		A3D32041	•		ASD3304N		
		4	NC												
		①	NO	•											
	☆	2	NO			•	☆	_							
	3S	3	NC		•		ASD33SN-243	_		_			_		
		4	_	Dun	nmy B	lock									

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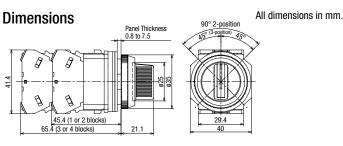
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- Round bezel (metal): Chrome-plated
- Selector switches with 1 or 3 contact blocks have a dummy block.
- Knob operator can be installed at every 45 degrees intervals in addition to the positions shown in the above table.
- See B-321 to B-322 for other contact configurations.

- . Turn the operator to each position accurately.
- Selector switches with \$\simeq\$ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Contact Block Mounting Position





Terminal cover: integrated

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

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Miniature Pilot Lights

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ARN CS

ASD□L Selector Switches (Lever Operator)

Package Quantity: 1

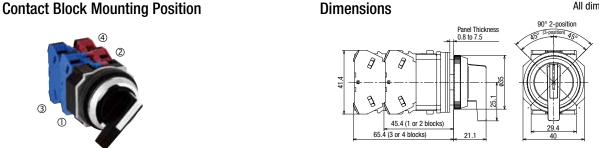
Shape	Lever Opera ASD□L	ator										ratikaye quaniny.	
		Contact C	Configurati	on		Maintained	Spring Return from Right	Spring Return from Left					
	Contact	Contact Block		Operator Position		1 2	1 2	Contact Block Operator Position			1, 2		
	Contact	Mounting Position	Contact	1	2			Mounting Position	Contact	1	2		
	1N0	0	NO		•	ASD2L10N	ASD21L10N	1	NO	•		ASD22L10N	
90°	(10)	2	_	Dun	nmy Block	/IODZETON		2	_	_		AODZZETON	
2-position	1NO-1NC	0	NO		•	ASD2L11N	ASD21L11N	0	NO	•		ASD22L11N	
	(11)	2	NC	•				2	NC		•		
	2N0	0	NO		•	ASD2L20N	ASD21L20N	①	NO	•		ASD22L20N	
	(20)	2	NO		•			2	NO	•			
		0	NO NO		•		ASD21L22N	①	NO	•	_		
	2NO-2NC (22)	2	NC	•		ASD2L22N		2	NC		•	ASD22L22N	
		3	NO NO	_	•			3	NO NO	•	_		
		4	NC	•				4	NC		•		
	Contact Configuration					Maintained	Spring Return from Right	Spring Return from Left				Spring Return Two-way	
	Contact	Contact	Contact Block		perator Position	1 0 2	1 0 2	1 0 2				1, 0, 2	
		Mounting Position	Contact	1	2								
	2N0					ASD3L20N	ASD31L20N ASD32L20N					ASD33L20N	
	(20)	2	NO		•	MODOLZUN	7.023122011					ASDSSLZUN	
	2NC	0	NC			ASD3L02N	ASD31L02N	LO2N ASD32L0				ASD33L02N	
	(02)	2	NC			AODSEUZIV						AUDUULUZIN	
		0	NO	•		-							
	2NO-2NC	2	NO		•	ASD3L22N	ASD31L22N	ASD32L22N				ASD33L22N	
45°	(22)	3	NC			-							
3-position		4	NC										
		0	NO NO	•	-	-							
	4NO	2	NO NO	_	•	ASD3L40N	ASD31L40N		ASD32L4	ON		ASD33L40N	
	(40)	3	NO NO	•		-							
		4	NO NO		•								
		0	NC			-							
	4NC	2	NC			ASD3L04N	ASD31L04N		ASD32L0	4N		ASD33L04N	
	(04)	3	NC	_		-							
		4	NC										
		0	NO	•		1							
	☆ 3S	2	NO		•	ASD3L3SN-243	_		_			_	
	38	3	NC		•	-							
		4	_	Dun	nmy Block								

- Lever: Black

- Round bezel (metal): Chrome-plated
 Selector switches with 1 or 3 contact blocks have a dummy block.
 Knob operator can be installed at every 45 degrees intervals in addition to the positions shown in the above table.
- Turn the operator to each position accurately.
 Selector switches with ☆ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
 See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Dimensions

All dimensions in mm.



Terminal Screws: M3.5 Terminal cover: integrated

Control Boxes

Stop Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Power Supplies

LED Illumination

Controllers

Operator

Sensors

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Circuit

Protectors

Emergency

Enabling

Switches

ASD□K Key Selector Switches

Package Quantity: 1

Key Selector (Key No. 0) ASD□K Shape Spring Return Spring Return from Left **Contact Configuration** Maintained from Right Operator Operator Contact Block Contact Block Position Position Contact Mounting Mounting Contact 2 Contact 1 Position Position 1 NO • 1 N0 • 1N0 ASD2K10N ASD22K10N ASD21K10N (10)**Dummy Block** 2 (2) 1 NO 1 N0 • • 1NO-1NC 2-position ASD2K11N ASD21K11N ASD22K11N (11)2 2 NC • NC 1 NO 1 N0 • 2N0 ASD2K20N ASD21K20N ASD22K20N (20)NΩ N0 2 2 1 NΩ • 1 N₀ • 2 NC 2 • NC 2NO-2NC ASD2K22N ASD21K22N ASD22K22N (22)3 3 N0 • NO 4 4 NC • NC • Spring Return Spring Return **Contact Configuration** Maintained Spring Return from Left from Right Two-way Contact Block Operator Position Mounting Contact Contact 2 1 Position NO • 2N0 1 ASD3K20N ASD31K20N ASD32K20N ASD33K20N (20)N0 2 1 NC 2NC ASD3K02N ASD31K02N ASD32K02N ASD33K02N (02)2 NC 1 NO 2NO-2NC 2 NO ASD3K22N ASD31K22N ASD32K22N ASD33K22N (22)3 NC 45° 4 NC 3-position 1 NO 2 NO 4N0 ASD3K40N ASD31K40N ASD32K40N ASD33K40N (40)3 NO lacktrian4 NO 1 NC 2 NC 4NC ASD3K04N ASD31K04N ASD32K04N ASD33K04N (04)3 NC NC 4 1 N0 2 N0 • ☆ 3S ASD3K3SN-243 3 NC 4 **Dummy Block**

- · Cylinder: Chrome-plated
- · Round bezel (metal): Chrome-plated Key selector switches with 1 or 3 contact blocks have a dummy block.
- . On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See B-308 for specifying key retained positions.
- Key selector switch is supplied with two standard keys.
- (1) Insert the key completely before turning the key, otherwise failure will result.
- (2) Turn the operator to each position accurately.
 Different key number is available upon request. Contact IDEC.
- Selector switches with A have a half contact operating current (load switching current
- value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
 See B-312 for bottom view.

45.4 (1 or 2 blocks)

65.4 (3 or 4 blocks)

Dimensions

Contact Block Mounting Position



All dimensions in mm. 90° 2-position Panel Thickness 0.8 to 7.5

16.5

Terminal Screws: M3.5

Terminal cover: integrated

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

ASLD Illuminated Selector Switches (LED)

Illuminated Selector Switches (BA9S Base)

Package Quantity: 1

Shape	ASLD (24V AC/DC)														
											0 '				
		Contact Configuration						Maintained	Spring Return from Right	Spring Return from Left					
	Contact	Contac	t Block		Operator Position		Operating Voltage	1 2	1 🕶 2	Contact Block		Operator Position		1, 2	Color Code
	Contact	Mounting Position	Contact	1	2		voltage			Mounting Position	Contact	1	2		Code
	4110 4110	1	NO		•		24V AC/DC	ASLD22211DN*	ASLD212211DN*	①	NO	•		ASLD222211DN*	
	1NO-1NC (11)	2	NC	•			100/110V AC	ASLD21611DN*	ASLD211611DN*	2	NC		•	ASLD221611DN*	
90°	(1.1)						200/220V AC	ASLD22611DN*	ASLD212611DN*					ASLD222611DN*	
2-position	0110	①	NO		•		24V AC/DC	ASLD22220DN*	ASLD212220DN*	①	NO	•		ASLD222220DN*	RG
	2NO (20)	2	NO		•		100/110V AC	ASLD21620DN*	ASLD211620DN*	2	NO	•		ASLD221620DN*	Ϋ́
	(20)						200/220V AC	ASLD22620DN*	ASLD212620DN*					ASLD222620DN*	A
	2NO-2NC (22)	①	NO		•		24V AC/DC	ASLD22222DN*	ASLD212222DN*	1	NO	•		ASLD222222DN*	S PW
		2	NC	•			100/110V AC	ASLD21622DN*	ASLD211622DN*	2	NC		•	ASLD221622DN*	
		3	NO		•		200/220V AC	ASLD22622DN*	ASLD212622DN*	3	NO	•		ASLD222622DN*	
		4	NC	•			_		_	4	NC		•		
	Contact Configuration						Maintained Spring Return from Right						Spring Return Two-way	Color	
		Contac	t Block	Operator Position		osition	Operating Voltage	1 0 2	1 0 2	1, 0 2				1,0,2	Color Code
	Contact	Mounting Position	Contact	1	0	2	Vollago								
		1	NO	•			24V AC/DC	ASLD32220DN*	ASLD312220DN*	ASLI	0322220)DN*		ASLD332220DN*	
	2N0 (20)	① ②	NO NO	•		•	24V AC/DC 100/110V AC	ASLD32220DN* ASLD31620DN*	ASLD312220DN* ASLD311620DN*)32222()32162(ASLD332220DN* ASLD331620DN*	
	2NO (20)			•		•				ASLI)DN*			
	(20)			•		•	100/110V AC	ASLD31620DN*	ASLD311620DN*	ASLI ASLI	0321620	DN*		ASLD331620DN*	
	(20) 2NC	2	NO			•	100/110V AC 200/220V AC	ASLD31620DN* ASLD32620DN*	ASLD311620DN* ASLD312620DN*	ASLI ASLI)321620)322620	DN* DN* DN*		ASLD331620DN* ASLD332620DN*	
	(20)	①	NO NC			•	100/110V AC 200/220V AC 24V AC/DC	ASLD31620DN* ASLD32620DN* ASLD32202DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN*	ASLI ASLI ASLI	0321620 0322620 0322202)DN*)DN* 2DN* 2DN*		ASLD331620DN* ASLD332620DN* ASLD332202DN*	
45°	(20) 2NC	①	NO NC			•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN*	ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602	DDN* DDN* 2DN* 2DN* 2DN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN*	
45° 3-position	(20) 2NC	① ① ②	NO NC NC	•		•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN* ASLD312602DN*	ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602	DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN*	R
-	2NC (02)	② ① ②	NO NC NC	•			100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32222DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN* ASLD312602DN* ASLD312222DN*	ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602	DDN* DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN*	R G Y
-	2NC (02) 2N0-2NC	① ① ② ① ②	NO NC NC	•			100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32222DN* ASLD31622DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN* ASLD312602DN* ASLD312222DN* ASLD311622DN*	ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222	DDN* DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN*	G Y A
-	2NC (02) 2N0-2NC	① ① ② ① ② ③	NO NC NO NO NO NO	•			100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32222DN* ASLD31622DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN* ASLD312602DN* ASLD312222DN* ASLD311622DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222	DDN* DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN*	G Y A S
-	2NC (02) 2N0-2NC	① ② ① ② ② ③ ④	NO NC NO NO NO NC NC	•			100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32222DN* ASLD31622DN* ASLD32622DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN* ASLD312602DN* ASLD312222DN* ASLD311622DN* ASLD312622DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222 0322622 0322622	DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN* ASLD332622DN*	G Y A
-	2NC (02) 2NO-2NC (22)	② ① ② ② ③ ④ ① ② ③	NO NC NO NO NO NO NO NC NC NC	•		•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC ————————————————————————————————————	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32222DN* ASLD31622DN* ASLD32622DN* ASLD32622DN* — ASLD32240DN*	ASLD311620DN* ASLD312620DN* ASLD311202DN* ASLD311602DN* ASLD312602DN* ASLD3112222DN* ASLD311622DN* ASLD311622DN* ASLD312622DN* ASLD312622DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222 0321622 0322622 —	DDN* DDN* 2DN* 2DN* 2DN* 2DN* 2DN* 2DN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN* ASLD332622DN* — ASLD332622DN*	G Y A S
-	2NC (02) 2NO-2NC (22) 4NO	② ① ② ② ③ ④ ① ②	NO NC NO NO NO NO NC NC NC NC NO NO NO	•		•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 100/110V AC	ASLD31620DN* ASLD32620DN* ASLD3202DN* ASLD31602DN* ASLD32602DN* ASLD32622DN* ASLD31622DN* ASLD32622DN* ASLD32622DN* ASLD32640DN* ASLD32640DN*	ASLD311620DN* ASLD312620DN* ASLD311202DN* ASLD311602DN* ASLD3112602DN* ASLD3112222DN* ASLD311622DN* ASLD311222DN* ASLD311640DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222 0321622 0322622 —	DDN* DDN* 2DN* 2DN* 2DN* 2DN* 2DN* 2DN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN* — ASLD332622DN* — ASLD331640DN* ASLD331640DN*	G Y A S
-	2NC (02) 2NO-2NC (22) 4NO	② ① ② ② ③ ④ ① ② ③	NO NC NC NO NO NO NC NC NC NO NO NO NO	•		•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 100/110V AC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32222DN* ASLD31622DN* ASLD32622DN* — ASLD32622DN* ASLD32622DN* ASLD32640DN* ASLD31640DN*	ASLD311620DN* ASLD312620DN* ASLD311202DN* ASLD311602DN* ASLD3112602DN* ASLD3112222DN* ASLD311622DN* ASLD311222DN* ASLD311640DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222 0321622 0322622 —	DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN* — ASLD332622DN* — ASLD331640DN* ASLD331640DN*	G Y A S
-	2NC (02) 2NO-2NC (22) 4NO	① ① ② ① ② ③ ③ ④ ① ② ③ ④ ④ ② ③ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④	NO NC NC NO NO NO NC NC NC NO NO NO NO NO NO	•		•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC	ASLD31620DN* ASLD32620DN* ASLD3202DN* ASLD31602DN* ASLD32602DN* ASLD32622DN* ASLD31622DN* ASLD32622DN* ASLD32622DN* ASLD32640DN* ASLD32640DN*	ASLD311620DN* ASLD312620DN* ASLD311602DN* ASLD311602DN* ASLD312222DN* ASLD311622DN* ASLD311622DN* ASLD312240DN* ASLD311640DN* ASLD311640DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222 0321622 0322622 0322622 0322640	DDN* DDN* PDN* PDN* PDN* PDN* PDN* PDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD332222DN* ASLD331622DN* ASLD332622DN* ASLD332640DN* ASLD332640DN* ASLD332640DN*	G Y A S
-	(20) 2NC (02) 2NO-2NC (22) 4NO (40)	0 0 0 0 3 0 0 0	NO NC NC NO NO NO NC NC NO NO NO NO NO NO NO NO NC	•		•	100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC 24V AC/DC 100/110V AC 200/220V AC — 24V AC/DC 100/110V AC 200/220V AC — 24V AC/DC 200/220V AC — 24V AC/DC 200/220V AC — 24V AC/DC	ASLD31620DN* ASLD32620DN* ASLD32202DN* ASLD31602DN* ASLD32602DN* ASLD32622DN* ASLD31622DN* ASLD32622DN* ASLD32640DN* ASLD32640DN* ASLD32204DN*	ASLD311620DN* ASLD312620DN* ASLD312202DN* ASLD311602DN* ASLD312602DN* ASLD312222DN* ASLD311622DN* ASLD312622DN* ASLD312640DN* ASLD312640DN* ASLD31204DN* ASLD312204DN*	ASLI ASLI ASLI ASLI ASLI ASLI ASLI ASLI	0321620 0322620 0322202 0321602 0322602 0322222 0321622 0322622 — 032224(0321640 0322640 —	DDN* DDN* DDN* DDN* DDN* DDN* DDN* DDN*		ASLD331620DN* ASLD332620DN* ASLD332202DN* ASLD331602DN* ASLD332602DN* ASLD331622DN* ASLD331622DN* ASLD3316240DN* ASLD331640DN* ASLD332640DN* ASLD332640DN* ASLD332204DN*	G Y A S

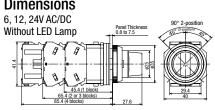
- Specify a color code in place of * in Part No.
- R (red), G (green), Y (yellow), A (amber), S (blue). PW (pure white)
 Round bezel (metal): Chrome-plated
- · Illuminated selector switches have an LED lamp installed.
- Use a pure white (PW) LED for yellow (Y) illumination.
 See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- Illuminated selector switches of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- Turn the operator to each position accurately.
- See B-309 for gold-plated silver contacts. • See B-314 for bottom view.

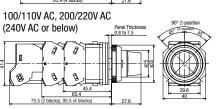
All dimensions in mm.

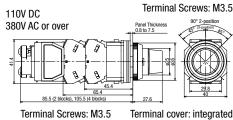
Contact Block Mounting Position Dimensions











Terminal Screws: M3.5

TWN

Miniature Pilot Lights

Flush Silhouette

ø16 ø22

ARN

CS

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16

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Pilot Lights

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ASBD2 Selector Pushbuttons

Package Quantity: 1

Shape	Contact Configuration	Circuit Code	Contact Block		Ring Po		Position		Button Color Code	Ring Operator	
			Mounting Position	Contact	Normal	Push!	Normal	Push	0000	Part No. (Ordering No.)	
Ring Operator (90°2-position) ASBD2	11	A03	①	NO		•		•	B G R Y		
	(1NO-1NC)	AUS	2	NC	•					ASBD211N-A03*	
			0	NO		•		•			
		A08	2	NC	•			_		ASBD222N-A08*	
			3	NO NO		•		•			
			4	NC NO	•	•		•			
			2	NO NO							
		C10	3	NC	•					☆ ASBD222N-C10*	
		010	4	NC						NOBBELLIN 010	
			0	NO		•			D		
	22 (2NO-2NC)	D10	2	NO				•	G	AODDOON DAG	
		D10		•				B G R Y	ASBD222N-D10*		
			4	NC			•		Y		
			① NO •								
		_☆	2	NO NO				_		☆	
		E10	3	NC						ASBD222N-E10*	
			4	NC				•			
			②	NO NO		•					
		☆ F10	3	NC			•			☆ ASBD222N-F10*	
		1 10	4	NC	•					MODDEFFIA-1 10	

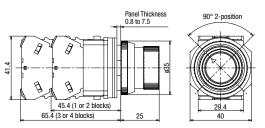
- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Bezel (metal): Chrome-plated
- Circuit codes E and F: The right and left NC contact blocks on circuit code E or F may overlap each other while turning the ring operator. The NO and NC contact blocks on circuit code F may overlap each other while pressing the button.
- When using the selector pushbutton, do not turn the ring operator with the pushbutton depressed. Otherwise, damage or failure may be caused.
- Selector switches with 🛱 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions Ring operator (90° 2-position)

All dimensions in mm.



Terminal Screws: M3.5 Terminal cover: integrated

Control Boxes

Emergency Stop Switches

Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit

Enabling Switches

Protectors

Controllers

Operator

Interfaces

Sensors AUTO-ID

Power Supplies LED Illumination

Pilot Lights (Round)

Package Quantity: 1

	Shape	Illumination	Base	Operating Voltage	Part No. (Ordering No.)	Color Code	LED Lamp Part No.
Round APD1				24V AC/DC	APD122DN*	R, G, Y, A, S, PW	LSRD-2
		LED	BA9S	100/110V AC	APD116DN*	R, G, Y, A, S, PW	LSRD-6
	(24V AC/DC)			200/220V AC	APD126DN*	R, G, Y, A, S, PW	LOND-0

• Specify a color code in place of * in Part No.

R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

Round bezel (metal): Chrome-plated

• Pilot lights have an LED lamp installed.

- See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
 See B-309 for how to specify units without LED lamps.
 Terminal cover is installed on pilot lights for electric shock prevention.

Туре	Terminal Cover	Quantity
6V, 12V, 24V AC/DC	APN-PVL	1
100V/110V AC, 200/220V AC	N-VL3	1
110V DC	N-VL3	1

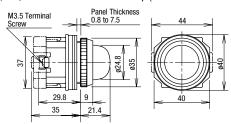
Note: DC-DC converter types are not approved by UL and CSA, and not CE compliant.

• See B-314 for bottom view.

Dimensions

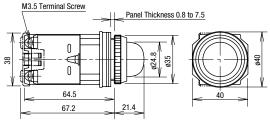
Round, LED illuminated

6V, 12V, 24V AC/DC · Without LED Lamp (Terminal Cover: APD-PVL)



Terminal Screws: M3.5

100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



Terminal Screws: M3.5

All dimensions in mm.

ø22

ø16

Miniature

Flush Silhouette

Pilot Lights

TWN

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• See B-349 for wiring.

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Nameplates

Model	Legend	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)	
NA	Diank		NA O	NA-0	1	. 401.2	
	DIAIIK	Aluminium 1.2 mm thick		NA-0PN10	10	245	
	With	White letters on black background	NA 🗆	NA-□ 1		930.5	
For TWN/TWND	Legend		NA-□	NA-□PN10	10	1 (600.3)	
NALO	Plank	Aluminium	NAI O	NAI O	NALO	1	40 11.2
For TWN/TWND	DIAIIK	Black	NALO	NALOPN10	10	030.5	
	NA For TWN/TWND NALO	NA Blank With Legend NALO Blank	NA Blank Aluminium 1.2 mm thick White letters on black background NALO Blank Aluminium 1.2 mm thick Black Black	NA Blank Aluminium 1.2 mm thick White letters on black background NA-□ NALO Blank Aluminium 1.2 mm thick Black NALO NALO NALO	NA-O Blank With Legend For TWN/TWND Blank Aluminium 1.2 mm thick White letters on black background NA-O NA-OPN10 NA-OPN10 NA- NA- NA- NA- NA- NA- NA- NA	NA Blank With Legend For TWN/TWND Blank Blank Aluminium 1.2 mm thick White letters on black background NA-□ NA	

Specify a legend code in place of $\hfill\Box$ in the Ordering No.

Legends

□: Code	Legend
1	ON
2	0FF
3	START
4	STOP
31	OFF ON
35	HAND AUTO
53	HAND OFF AUTO

Flush Silhouette

Power Supplies

LED Illumination

Controllers

Operator
Interfaces

Sensors

AUTO-ID

ø16

ø22

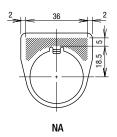
Miniature

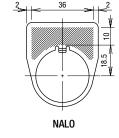
Pilot Lights



ARN

Shape and Engraving Area





All dimensions in mm.

Example (when the legend height is 4 mm)

Shape	Engravi (m	ng Area m)	Max. No. of Lines	No. of Letters on
	Height Width		OI LINES	1 Line
NA	5	36	1	14
NALO	10	36	2	14

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

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Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Operator

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature
Pilot Lights

ARN

Accessories

Shape	Material	Part No.	Ordering	Package	Remarks
<u> </u>	iviaterial	Part No.	No.	Quantity	
Locking Ring Wrench B A For TWN/TWND	Nitril rubber (black)	OR-12	0R-12	1	Used to tighten the round bezel when installing the ø30 or ø25 switch onto a panel from the front. A: TWS series (ø25) B: TWN/TWND series (ø30) A B: TWN/TWND series (ø30)
Lamp Holder Tool					Used to install and remove the LED/incandescent lamps.
A B For TWN/TWND	Nitril rubber (black)	0R-55	OR-55	1	See B-345. A: For BA9S base B: For E12 base A OR-55 59
Contact Block Removal Tool					Used to remove transformer units. See B-347 for how to use.
For TABLE	Metal (zinc-plated) Rubber (nitryl)	TW-KC1	TW-KC1	1	130 130 R
For TWN Contact Rubber Boot					Rubber boot used to prevent oil and dirt from entering into the
For momentary 1 layer of contact blocks (2 contact blocks) For TWN	Nitril rubber (black)	OC-99	OC-99	1	• When inserting a cable, cut the projection on the cover to match the cable size.
Anti-rotation Ring					• Used to prevent the operator 2.8 0.8
For TWN/TWND	Metal (diecast) (zinc-plated)	0GL-11	OGL-11PN10	10	from turning. Generally used when using no nameplates on selector switches and selector pushbuttons. • See B-345 for installation. • Cannot be used for pin lock.
Rubber Mounting Hole Plug	Nitril rubber (black)	0B-13B	0B-13BPN05	5	Used to plug unused ø30.5 mm mounting holes. Degree of protection: IP40
For TWN/TWND	Nitril rubber (gray)	0B-13	0B-13PN05		(a)30 ≥ (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Plastic Mounting Hole Plug For TWN/TWND	Plug: ABS plastic (gray) Gasket: Chloroprene rubber Locking ring: diecast zinc	0BP-11	0BP-11	1	Tightening torque: 1.2 N·m. Degree of protection: IP65 (when there is no anti-rotation ring hole) Supplied with a locking ring. Gasket M30 ^{P1.5} Screw Locking Ring
Metallic Mounting Hole Plug For TWN/TWND	Plug: ABS plastic (gray) Gasket: Chloroprene rubber Locking ring: diecast zinc	0B-11	0B-11	1	Tightening torque: 1.2 N·m. Degree of protection: IP65 (when there is no anti-rotation ring hole) Supplied with a locking ring. Gasket M30 ^{P1.5} Screw Locking Ring

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN

Accessories All dimensions in mm.

Shape	Material	Pa	rt No.	Ordering No.	Package Quantity	Remarks
Button Cover for Extended Pushbuttons		Black	0C-11B	0C-11B		Metallic bezels covered with a rubber boot to enhance waterproof characteristics.
	Nitril rubber	Red	0C-11R	0C-11R	1	Button is not included. Applicable to extended pushbuttons only. Oil-proof
	Bezel: diecast zinc	Green	0C-11G	0C-11G	•	Operating temperature: —5 to +60°C. = 038 = 038 = 038 = 038 = 038
For TWN/TWND		Yellow	0C-11Y	0C-11Y		
For flush pushbuttons	- EPDM rubber	0C-12	1	0C-121	1	Used to cover and protect push- buttons where units are subject to water splash. Not suitable for outdoor use or where the units are subject to oil splash.
For TWN/TWND For Ushbuttons		00-12	2	0C-122	1	Part No. A B 0C-121 37 16 0C-122 37 22
Dust-proof Rubber Cover for Jumbo Mushrooms						Used for ABN4G and ABGD4 pushbuttons. Panel Thickness 1.2 to 5.5
For TWN/TWND	Nitril rubber (black)	0C-4G	N	OC-4GN	1	
Padlock Cover						Used to protect pushbuttons and illuminated pushbuttons (momentary/maintained) with 24 mm max. height from the panel, and selector switches (knob operator).
For TWN/TWNE	Polyarylate (gasket: nitryl rubber)	OL-KL	1	OL-KL1	1	Not used for the following models. Pushbuttons Mushroom with full shroud Mushroom Jumbo mushroom with shroud Illuminated Pushbuttons With half shroud With full shroud With full shroud Selector Switches Lever operator Key selector switch with key installed Not used for the following models. Panel Thickness 0.8 to 3.2 Panel Thickness Waterproof Rubber Rubber Rubber Sasket O.St 30 Rey Hole 88 82.5 Waterproof Rubber Rubber Rubber Sasket O.St 30 Risket O.St 40 Riske
Padlock Cover for Key Selector Switches						Applicable model Key selector switches ASN□K/ASD□K See padlock cover catalog for operating instruction. Additional section of the section of t
	Metal Paint: red (zinc-plated brass)	HS9Z-	PC30	HS9Z-PC30	1	Material SPCC 1.6 mm-thick Red paint State Sect Sec
For Flush Pushbuttons						Used to protect flush pushbuttons from inadvertent operation.
	Metal (zinc-plated brass)	OL-C		OL-C	1	• Can be easily attached using the locking ring.
For TWN/TWND			-			

Accessories

Shape	Material	Part No.	Ordering No.	Package	Remarks	lot Lights
Metallic Bezel				Quantity		ांड
	Metal				Cannot be used with pin lock,	APEM
	(diecast zinc: chrome-plated)	0G-11	0G-11PN02	2	selector pushbuttons, and monolever units.	Switches & Pilot Lights
						Control Boxes
ø35/ø26, height 9 For TWN/TWN	D					Emergency Stop Switches
Plastic Bezel						Enabling Switches
					 Specify a color code in place of *. B (black), G (green), R (red), W (white), 	Safety Products
	Polycarbonate	0GP-11*	OGP-11*PN02	2	Y (yellow) • Cannot be used with pin lock, selector	Explosion Proof
					pushbuttons, and monolever units.	Terminal Blocks
ø35/ø26, height 9 For TWN	1					Relays & Sockets
Octagonal Metal Bezel						Circuit Protectors
① Flush W35		0G-81	OC_91DNO9	2		Protectors Power Supplies
(37.6)		00-01	0G-81PN02	2		LED Illumination
H9	Metal (diecast zinc:				Use with TWDN series diecast zinc switches and pilot lights.	Controllers
	chrome-plated)				Cannot be used with half-shrouds.	Operator Interfaces
© Extende W35	d	0G-82	0G-82	1		Sensors
(37.6) H16						AUTO-ID
For TWDN Clear Plastic Shroud for Flush Pushbuttons						
	Acrylic (clear)	0GP-13	0GP-13PN02	2		Flush Silhouette
	Aciyiic (cicai)	001-13	JUI - I JENUZ			ø16 ————————————————————————————————————
405 hairibh 14						ø22
ø35, height 14 For TWN Clear Plastic Shroud for Extended Pushbutton					Clear plastic full shroud.	ø30
2. See 18. External and administration						Miniature
	Acrylic (clear)	0GP-14	0GP-14PN02	2		Pilot Lights
	ACI YIIC (CIERI)	0ur-14	OUT-14FNUZ			
						TIMN
ø35, height 20.6 For TWN Clear Plastic Shroud for Illuminated Pushbuttons	1					TWN
						TWND
					a Duttono mou protecido alicette descer	ARN
	Acrylic (clear)	0GP-1411	0GP-1411	1	Buttons may protrude slightly depending on the panel thickness.	CS
Shroud: ø35, height 20.6 Metal Nut Ring: height 4 For TWN	1					
Metal Nut Ring for Illuminated Pushbuttons						
	Metal (diecast zinc)	0L-11	OL-11PN05	5	Metal nut ring for OGP-1411 only.	
ø35, height 4 For TWN	I					

Control Boxes

Emergency
Stop Switches
Enabling
Switches
Safety Products

Explosion Proof
Terminal Blocks
Relays & Sockets
Circuit
Protectors
Power Supplies

LED Illumination
Controllers
Operator
Interfaces
Sensors

AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN

Accessories

All dimensions in mm

						,	
	S	hape	Material	Part No.	Ordering No.	Package Quantity	Color Code *
	Button for Pushbuttons	① Flush ø24.6, height 4		ABN1BN-*	ABN1BN-*PN05	5	
M &	2	② Extended ø24.6, height 9		ABN2BN-*	ABN2BN-*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)
es Cy	3	③ Mushroom ø40, height 16.2	Polyacetal	ABN3BN-*	ABN3BN-*PN02	2	
g s	4	④ Jumbo Mushroom ø65, height 23.2		ABN4BN-*	ABN4BN-*	1	B (black), G (green), R (red), Y (yellow), S (blue)
of	(5)	© Button for Pin Lock (ABD8P) ø23.6, height 3		ABW1B-*	ABW1B-*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)
ts it		© Ø40 Pushlock Turn Reset (AVN3, AVD3) Ø40, height 18.5	AS resin	AVN3B-*	AVN3B-*	1	R (red),Y (yellow)
es en	For TWN/TWND	Ø 440Push Turn Lock(AJN3, AJD3)Ø40, height 18.5	AS TESTI	AJN3B-*	AJN3B-*	1	B (black), G (green), R (red), Y (yellow)
rs or es rs	Lens for Illuminated Pushbuttons ①	① Extended (ALN2, ALD2) ø24, height 18.5	AC ragin	ALN2LD-*-K	ALN2LD-*-KPN05	5	R (red), G (green), S (blue), Y (yellow), A (amber), W (white) Specify W for PW (pure white) illumination.
D —	② For TWN/TWND	② ø40 Pushlock turn reset (AVLN3, AVLD3) ø40, height 18.5	AS resin	AVLN3L-R-K	AVLN3L-R-KPN02	2	R (red) only
te — 6	Selector Operator	① Knob operator ø25, height 20.5		ASNHT-*	ASNHT-*PN02	_	
0	2	② Lever operator ø25, height 20.5, length 37.5	Polyacetal	ASNHL-*	ASNHL-*PN02	2	B (black), G (green), R (red)
re — ts —	(3) (4)	③ Color insert Width 21, depth 5, height 18		TW-HC1*	TW-HC1*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)
N D	For TWN/TWND	4 Knob for illuminated selector switch (ASLN, ASLD) ø25, height 28	AS resin	ASLNHD-*-K	ASLNHD-*-K	1	G (green), R (red), S (blue), A (amber), W (white), Y (yellow) Specify W for PW (pure white) illumination.
N S	Lens for Pilot Lights ①	① Round (APN1, APD1) ø24.6, height 28, M20 For TWN/TWND		APN106LN-*-K	APN106LN-*-KPN05	5	R (red), G (green), Y (yellow) A (amber), W (white), S (blue) Specify W for PW (pure white) illumination.
	2	© Rectangular (UPQN4) Width 36, depth 30, height 8.5	AS resin	UPQN406LD-*-K	UPQN406LD-*-KPN05	5	R (red), G (green), Y (yellow), A (amber), C (clear), S (blue) Specify C for PW (pure white) illumination.
	3	③ Square extended (UPQN3B) □25, height 26.5 For TWN		UPQN06LD-*-K	UPQN06LD-*-KPN05	5	R (red), G (green), S (blue), Y (yellow), A (amber), W (white) Specify W for PW (pure white) illumination.
	Marking Plate For TWN	Rectangular pilot lights (UPQN4) Width 29.8, depth 23.8, thickness 2	Acrylic	UPQN406N-W	UPQN406N-WPN05	5	W (white) only See B-346 for engraving area.

Maintenance Parts

Shape	Material	Part No.	Ordering No.	Package Quantity	Remarks	Pilot Lights
Rubber Washer (1.5 mm-thick)						S
	Rubber (synthetic soft vinyl)	0W-11	0W-11PN10	10	To tighten mounting panels	APEM
For TWN/TWN	ø39/ø29.5, height 1.5					Switches &
Rubber Washer (3.0 mm-thick)						Pilot Lights
For TWN/TWNI	Rubber (synthetic soft vinyl) ø39/ø29.5, height 3	0W-12	0W-12PN10	10	To tighten mounting panels	Emergency Stop Switches Enabling
Shroud for Pushbuttons						Switches
①	① Half shroud	ABN2G	ABN2G	1	• With nut ring (ø35, height 4)	Safety Product
	ø35/ø27, height 20.5					Explosion Proo
②						Terminal Block
	② Full shroud	ABN2F	ABN2F	1		Relays & Socke
3	ø35/ø28.5, height 16.5					Circuit Protectors
	@ Full -b				-	Power Supplie
4	③ Full shroud (for mushroom	ABN3G	ABN3G	1		LED Illumination
	pushbuttons) ø48, height 20	ADNOG	ABNOU	'		Controllers
	2 10, 1101g.11 = 0				_	Operator
(5)	Shallow shroud (for iverball and process)	ADNAC	ADNAC	1		Interfaces
	(for jumbo mushroom) ø75, height 18	ABN4G	ABN4G	1		Sensors
					_	AUTO-ID
	⑤ Deep shroud (for jumbo mushroom)	ABN4F	ABN4F	1		
For TIMAL/TIMAN	ø75/ø69, height 33	ADIN4I	ADINA	1		Flush Silhouet
For TWN/TWNI proud for Illuminated Pushbuttons						ø16
	① Half shroud (For BA9S base)	ALN2GL	ALN2GL	1	• With nut ring (ø35, height 4)	l ———
	ø35/ø27, height 25	ALIVEUL	ALIVEOL		With flucturing (900, floight 4)	ø22
						ø30
	② Full shroud (For BA9S base)	ALN2FL	ALN2FL	1	• With nut ring (ø35, height 4)	Miniature
For TWN/TWNI	935/ø29.5, height 22.5				, , , , , , , , , , , , , , , , , , ,	Pilot Lights
pare Key or Key Selector Switches						
or key selector switches	Metal Nickel plated brass	TW CV O	TW-SK-0PN02		◆ ASN□K□N	TMA
	Length 3, width 19.7, thickness 1.8	TW-SK-0	TW-5K-UPNUZ	2	ASD□K□N	TWN
For TWN/TWNI) amoranees 1.5					TWND
pare Key or Key Selector Switches	Metal					ARN
	Nickel plated brass	ASN-SK-24401	ASN-SK-24401PN02	2	ASN□K□-N024401	CS
	Length 37.5, thickness 2	7.0.1 0.1 2.101	7.6.1 6.1 2.1.6.1.1.02	_	7.6.1.2.1.2.1.6.1	
For TWI	N					1
in/Chain Kit or ABD8P						
	Pin: Nickel plated brass	ABD8P-PIN	ABD8P-PIN	1	Pin, chain, and plate for ABN8PPin (ø4.6)	
For TWNI					יו וו (טיזיט)	
ontact Block Plug	, <u> </u>					1
onder blook I lug						
100	Polyamide	HW9Z-CBPL	HW9Z-CBPLPN10	10	 Used to plug the hole in the center of a contact block. 	

For TWN/TWND

Circuit Protectors **Power Supplies** LED Illumination Controllers Operator

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks

Maintenance Parts

Shape	Description	Part No.	Ordering No.	Package Quantity	Remarks	
Contact block	NOtt	HW-U10	HW-U10		Housing color: Blue	
HW-U	NO contact	HW-U10-MAU	HW-U10-MAU	1	Push rod color: Green MAU has gold contacts	
	NOtt	HW-U01	HW-U01		Housing color: Reddish purple	
	NC contact	HW-U01-MAU	HW-U01-MAU	1	Push rod color: Red MAU has gold contacts	
	EM contact	HW-U10R	HW-U10R		Housing color: Blue	
	(early make)	HW-U10R-MAU	HW-U10R-MAU	1	Push rod color: Black MAU has gold contacts	
	LB contact	HW-U01R	HW-U01R		Housing color: Reddish purple	
For TWN/TWND, 11g approx.	(late break)	HW-U01R-MAU	HW-U01R-MAU	1	Push rod color: White MAU has gold contacts	
Dummy Block For TWN/TWND 3.5g approx.	Polyamide	HW-DB	HW-DBPN10	10	For HW-U contact blocks Used when the number of contact blocks and full voltage adapters is 1 or 3.	
Full Voltage Adapter For Illuminated Switches (*1) For TWN/TWND 12g approx.	Polyamide	HW-GA1N	HW-GA1NPN02	2	Applicable model: Illuminated pushbuttons Illuminated selector switches Applicable load (LED lamp) LSRD-6, LSTD-6 (6V AC/DC) LSRD-1, LSTD-1 (12V AC/DC) LSRD-2, LSTD-2 (24V AC/DC)	
Transformer Unit For Illuminated Switches (*1)	100/110V AC	HW-T16	HW-T16	1	Applicable model: Illuminated pushbuttons	
For TWN/TWND 66g approx.	200/220V AC	HW-T26	HW-T26	1	Illuminated selector switches • Applicable load (LED lamp) LSRD-6, LSTD-6 (6V AC/DC)	
Transformer Unit For Pilot Lights (*1)	100/110V AC	TWR-016B	TWR-016B	1	Mounting screws are not included. See B-347 for mounting screws.	
For TWN/TWND 69g approx.	200/220V AC	TWR-026B	TWR-026B	1	Applicable load (LED lamp) LSRD-6, LSTD-6 (6V AC/DC)	

¹⁾ For use as maintenance parts. Do not use for expansion or remodelling purposes.

LED Lamps (Use LED lamps for replacing incandescent lamps)

Model	Operating	Curre	nt Draw	Part No.	Ordering No.	Color Code	Package	Base
Model	Voltage	DC	DC	Part No. Ordering No. Color Co.		Color Code	Quantity	Dase
LSRD	CV AC/DC	10	1 4 4	LCDD C	LSRD-6		1	
	6V AC/DC	10mA	14mA	LSRD-6	LSRD-6PN10		10	
200	12V AC/DC	7mA	8mA	LSRD-1	LSRD-1		1	BA9S
C	12V AC/DC	TIIIA	OIIIA	LOND-1	LSRD-1PN10	_	10	/13
	24V AC/DC	7mA	8mA	LSRD-2	LSRD-2		1	İ
	24V AC/DC	/IIIA	OIIIA	LOND-2	LSRD-2PN10		10	
LSTD	6V AC/DC	7mA (R, A) 5.5mA (G, PW)	8mA (except S)	LSTD-6*	LSTD-6*		1	BA9S /13
	OV AC/DC	4.5mA (S)	7mA (S)	L01D-0**	LSTD-6*PN10	R, G, A, S, PW	10	
	12V AC/DC	10mA (except S)	11mA (except S)	LSTD-1*	LSTD-1*		1	
	12V AC/DC	8mA (S)	9mA (S)		LSTD-1*PN10		10	
	24V AC/DC	10mA (except S)	11mA (except S)	LSTD-2*	LSTD-2*		1	
	24V AC/DC	8mA (S)	9mA (S)	L31D-2*	LSTD-2*PN10		10	
LETD	6V AC/DC	14mA (R, A)	17mA (R, A)	LETD-6*	LETD-6*		1	
	6V AC/DC	5.5mA (G, S, PW)	8mA (G, S, PW)	LEID-0*	LETD-6*PN10		10	
	12V AC/DC	10V AC/DC 6.5mA		LETD O.	LETD-8*	R, G, A, S, PW	1	E12
	12V AG/DG	(10mA: at 15V)	(11mA: at 15V)	LETD-8*	LETD-8*PN10	n, d, A, 3, FW	10	/15
	24V AC/DC	10mA	11mA	LETD-2*	LETD-2*		1	
	24V AU/DU	TOTAL	TIIIA L	LLID-Z*	LETD-2*PN10		10	

- \bullet Only one color is available for LSRD so there are no codes to specify the color in the part no.
- Specify a color code in place of * in Part No. R (red), G (green), A (amber), S (blue), PW (pure white)
- Use a PW (pure white) LED for Y (yellow) illumination.
- When replacing the LED with LSRD, the lens must also be replaced (see B-341).

Sensors AUTO-ID

Flush Silhouette ø16

ø22

Miniature

Pilot Lights

ARN

CS

Maintenance Parts

LED lamps for replacing incandescent lamps

	ncandesce	ent Lamp				
Model (mm)	Part No.	Operating Voltage	Lamp Rating	Base		
LS	LS-6	6V AC/DC	1W (6V)			
-1	LS-8	12V AC/DC	1W (18V)	BA9S		
Bulb: ø11	LS-2	18V AC/DC	1W (24V)	/13		
Length: 23	LS-3	24V AC/DC	1W (30V)			
LE	LE-6	6V AC/DC	2W (6V)			
	LE-8	12V AC/DC	2W (18V)	E12		
Bulb: ø13	LE-2	18V AC/DC	2W (24V)	/15		
Length: 34	LE-3	24V AC/DC	2W (30V)			

• Only one color is available for LSRD so there are no codes to specify the color in the part no.

Operating Voltage

100/110V AC

200/220V AC

400/4440V AC

100/110V AC

200/220V AC

400/4440V AC

• Terminal cover (TWR-VL3) is installed on transformers as standard.

Voltage Range

±10%

±10%

±10%

±10%

±10%

±10%

• When replacing incandescent lamps to LSRD, the lens must also be replaced (see B-341).

		Replacement	LED Lamp			
	Part No.	Color Code	Operating Voltage	Base		
	LSRD-6		6V AC/DC			
	LSRD-1		12V AC/DC	BA9S		
	LSRD-2	_	24V AC/DC	/13		
	LSRD-2		24V AC/DC			
	LETD-6*		6V AC/DC			
	LETD-8*	R, G, A,	12V AC/DC	E12		
	LETD-2*	S, PW	24V AC/DC	/15		
	LETD-2*		24V AC/DC			

Part No.

(Ordering No.)

TWR516

TWR526

TWR546

TWR512

TWR522

TWR542

- When using a commercially available incandescent lamp, choose a lamp with the same dimensions, operating voltage, and base.
- Specify a color code in place of * in Part No. R (red), G (green), A (amber), S (blue), PW (pure white)
- Use a PW (pure white) LED lamp for Y (vellow) illumination.
- For O (orange) and C (clear) color code of incandescent lamp, use A (amber) LED lamp.

Applicable Load

APEM

Control Boxes

Stop Switches Enabling Switches

Safety Products

Explosion Proof

Relays & Sockets

Protectors

Power Supplies

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Interfaces

AUTO-ID

ø16

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Miniature Pilot Lights

Emergency

Terminal Blocks

Circuit

Operator

Sensors

Flush Silhouette

R (red), G (green), A (amber), S (blue),

LSRD-6, LSTD-6* (6V AC/DC, LED lamp)

R (red), G (green), A (amber), S (blue),

Specify a color code in place of * in Part No.

LSRD-2, LSTD-2* (24V AC/DC, LED lamp)

Specify a color code in place of * in Part No.

Specifications

For 6V

For 24V

Transformer

Shape

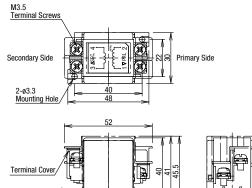
Part No.	TWR5□6	TWR5□2	
Rated Voltage	100/110V AC, 200/220V AC, 400/440V AC (50/60 Hz)		
Current Draw	2.4VA		
Rated Insulation Voltage	600V		
Insulation Resistance	100MΩ minimum (500V DC	megger)	
Operating Temperature	-30 to 60°C (no freezing)		
Operating Humidity	35 to 85% RH (no condensa	tion)	
Storage Temperature	-40 to +80°C (no freezing)		
Vibration Resistance	Damage limits: 30 Hz, amplitude 1.5 mm		
VIDIATION NESISTANCE	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm		
Shock Resistance	1000 m/s ²		
SHOCK RESISTANCE	100 m/s ²		
Dielectric Strength	2500V AC, 1 minute		
Terminal Screw	M3.5		
Applicable Wire	2 mm² maximum, 2 wires m	aximum	
Weight	87g		

Dimensions

PW (pure white)

PW (pure white)

All dimensions in mm.



ARN

CS

Accessories

Shape	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)
DIN 35 mm Rail Weight: 200g approx.	Aluminum Length: 1000 mm	BAA1000	BAA1000PN10	10	12.5 1.7 12.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
End Clip Weight: 15g approx.	Metal (zinc-plated steel) Applicable rail: BAA1000 BAP1000	BNL6	BNL6PN10	10	M4 screw

• See H-071 for DIN rail products.



Safety Precautions

- Turn off the power to the TWN/TWND switches & pilot lights before starting installation, removal, wiring, maintenance, and starting installation, removing, wiring, maintenance, and inspection of the products. Failure to turn power off may cause electrical shocks or fire hazard.
- To avoid a burn on your hand, use the lamp holder tool when replacing lamps.
- For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the terminal screws to the recommended tightening torque (see B-349). Failure to tighten terminal screws may cause overheat and
- When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available lamp is used.

APEM

Control Boxes

Emergency

Stop Switches Enabling

Safety Products

Switches

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies LED Illumination

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Operator

Interfaces Sensors

AUTO-ID

Flush Silhouette

ø16

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Miniature

Pilot Lights

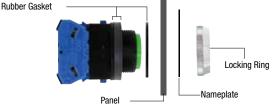
ARN

CS

Operating Instructions

Panel Mounting

- 1. Remove the locking ring from the operator and check that the rubber gasket is in place. For mushroom and jumbo mushroom switches, remove the button before removing the locking ring.
- 2. Adjust the thickness of the rubber washers according to the panel thickness.
- 3. Insert the switch into the panel from the back of the panel.
- 4. On the panel front, install the nameplate and locking ring. For mushroom and jumbo mushroom switches, install the button before installing the locking ring.



Panel Thickness and Rubber Washer

Adjust the thickness of the rubber washers according to the panel thickness as shown in the tables below. Also, make sure to include the nameplate thickness when using a nameplate.



Illuminated pushbutton (extended w/full shroud)

Rubber Washer

1.5 mm-thick 3.0 mm-thick

1

3.0 mm-thick

Applicable Model

TWN/TWND series

(flush/extended/mushroom/jumbo mushroom) Illuminated pushbutton (extended/mushroom) Pilot light (except for square type)

Panel	Rubber Washer			
Thickness (mm)	1.5 mm-thick	3.0 mm-thick		
Supplied	2 pieces	1		
0.8 to 3.5	2 pieces	1		
3.5 to 5.0	1	1		
5.0 to 6.5	_	1		
6.5 to 7.5	1	_		

5.0 to 6.0 (6.5)* *1: (6.5) is for mushroom pushbuttons with full shroud

2 pieces

2 pieces

TWND series

Pin lock pushbutton

TWN/TWND series

Thickness (mm)

Supplied

0.8 to 3.5

2.0 to 3.5

3.5 to 5.0

Mushroom with full shroud

	Panel	Rubber	Washer
	Thickness (mm)	1.5 mm-thick	3.0 mm-
	Supplied	2 pieces	1
nick	0.8 to 3.0	2 pieces	1
4	3.0 to 4.5	1	1
_	4.5 to 6.0	-	1
	6.0 to 7.5	1	_

TWN/TWND series

TWN/TWND series

Illuminated pushbutton

Panel

Thickness (mm)

Supplied 0.8 to 1.8 1.8 to 3.5

(extended with half shroud)

Pushbutton (extended with full shroud)

Pushbutton (extended with half shroud)

Rubber Washer

1.5 mm-thick 3.0 mm-th

•		,
Panel	Rubber	Washer
Thickness (mm)	1.5 mm-thick	3.0 mm-thick
Supplied	2 pieces	1
0.8 to 2.5	2 pieces	1
2.5 to 4.0	1	1
4.0 to 5.5	_	1
5.5 to 6.0	1	

TWN/TWND series

Other models (excluding square)

Panel	Rubber Washer		
Thickness (mm)	1.5 mm-thick	3.0 mm-thick	
Supplied	2 pieces	1	
0.8 to 3.5	2 pieces	1	
3.5 to 5.0	1	1	
5.0 to 6.5	_	1	
6.5 to 7.5	1	_	

• See B-324 for square pilot lights about installing on the panel and replacing LED lamps.

Notes for Panel Mounting

Locking ring wrench recommended torque

Tighten the bezel to a tightening torque of 3.0 to 3.5 N·m.

Locking ring wrench

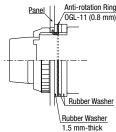
Locking ring wrench (OR-12) can be used to tighten the bezel. Use side B to tighten. Side B: For TWN/TWND series Side A: TWS series



Installing the Anti-rotation Ring (OGL-11)

Anti-rotation rings are used on selector switches or pushbuttons which rotate and used when using no nameplates. Insert a 1.5 mm-thick rubber washer between the panel and the anti-rotation ring as shown on the right.

To install, adjust the panel thickness by taking the thickness of anti-rotation ring (OGL-11) into consideration.



Replacement of LED Lamps

Lamps can be replaced by using the lamp holder tool (OR-55) from the front of the panel. (See B-338 for lamp holder tool.)

How to Remove

To remove, slip the lamp holder tool onto the lamp head lightly. Then push slightly, and turn the lamp holder tool counterclockwise.



How to Install

To install, insert the lamp head into the lamp holder tool. Place the two pins on the lamp base to the grooves in the lamp socket. Inset the lamp and turn it clockwise.



The number of rubber washers shown in the dimensions of TWN/TWND series may differ from the number of rubber washers supplied.

Operating Instructions

Installing/Removing the Buttons and Lenses

To install

Pushbutton button

Flush/Extended

Push in the button to



Insert a flat screwdriver between the button and the bezel to remove the button (see below for details).

To remove

).

<Notches:

Notches on the operating shaft

The operating shaft has four notches as shown at right. Insert a flat screwdriver (3 mm max.) into one of the notches, and tilt the screwdriver to remove the button.



install.

Make sure to insert a flat screwdriver into one of the notches, otherwise the pushbutton may be damaged.

Notes on button removal

To avoid damaging the bezel or the button, remove the bezel from the pushbutton before inserting a flat screwdriver.

Mushroom/ Jumbo Mushroom

Button has threads. Turn clockwise to install the button.



Turn the button counterclockwise to remove.



Illuminated Pushbutton Lens

Extended/Mushroom

Lens has threads. Turn clockwise to install the lens.



Turn the lens counterclockwise to remove.



Pilot Light Lens Round

Lens has threads. Turn clockwise to install the lens.



Turn the lens counterclockwise to remove.



 Λ

A rubber gasket is installed between the lens and operator on pilot lights. Make sure that the rubber gasket is in place when installing the lens.

Marking Plate on Pilot Lights

Rectangular Marking Plates (for UPQN4)

Removing

① Insert a flat screwdriver between the lens and bezel, and tilt the screwdriver to remove the lens.



Engraving Area

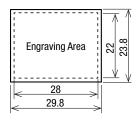
Material: Acrylic resin Size:

 $29.8 \text{ W} \times 23.8 \text{ D}$, thickness 2.0 mm Engraving area:

28 W \times 22 D \times 1.0 mm height max.

② A white marking plate is installed in the lens which can be removed easily.

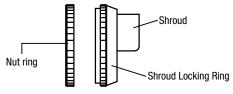




Installing the Half Shroud on Extended Pushbuttons/ Illuminated Pushbuttons

Half Shroud Parts

A shroud is installed in the shroud locking ring. Tightening the shroud locking ring in the switch locks the shroud.



Installing the Half Shroud

- ① Adjust the thickness of the rubber washers according to the panel thickness (see B-345).
- ② Insert the switch into the panel from the back of the panel.
- 3 Install the nut ring from the panel front to tighten the switch.
- (4) Install the half shroud on the upper side of the switch, and tighten the shroud locking ring.
- (5) Make sure that the shroud is securely fastened inside the shroud locking ring.

Tightening the Half Shroud

Align the three projections on the shroud with the groove on the switch, and tighten the shroud on the upper side of the switch. Tighten the shroud locking ring.



- Shrouds may rattle depending on the panel thickness.
- A gap may appear between the nut ring and the shroud locking ring depending on the panel thickness.

ilot Lights

APEM

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Circuit Protectors

Power Supplies

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Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

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ø16

ø30

Miniature

Pilot Lights

TWN

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Operating Instructions

Selector Switches

Turn the operator such as knob, lever, and key to each position accurately. Releasing halfway may cause the operator to return to the former position, or to get stuck between. On spring return two-way types, the center of operators may be misaligned slightly.

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Key Selector Switches

Insert the key completely before turning. Failure to do so may cause failures.

Installing the Operator on Selector Switches

① Install the switch with TOP marking facing upward, so that the operator can be installed on the switch in the correct direction.



2 On non-illuminated models, install the color insert in the middle of operator. The color insert also serves to retain the operator.

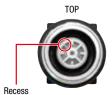


3 On illuminated models, align the operator with the switch by confirming the TOP marking on the switch and also the switch operation. Then press in the operator into the switch.



Installation of Selector Operators

The shaft of each non-illuminated selector switch has a recess to identify in which direction to install the operator. Align the operator with the recess and press in the operator. Press a color insert (non-illuminated) into the operator (illuminated selector switches do not have a recess on the shaft).





90° 2-position



45° 3-position

The non-illuminated operators can be installed in positions other than the standard position shown above







Standard positions

Removal

Removing the Operator from Selector Switches



(1) Insert a flat screwdriver into the recess under the color insert. Turn the screwdriver to push out the insert from the operator.



2 Pull out the operator sideways as shown in the left photo to remove the

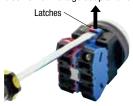
Removing the Operator from Illuminated Selector Switches



- ① Insert a flat screwdriver (4 to 5 mm) into the recess at right or left under the operator and tilt. The operator is displaced slightly.
- 2 Insert the flat screwdriver into the other recess and tilt. The operator can be removed.

Removing the Contact Blocks/Full Voltage Adapters

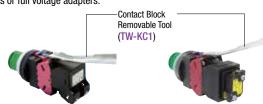
Insert a flat screwdriver (4 to 6 mm) into the snap-fit latches of the contact block or full voltage adapter and lift to remove.



- Make sure to lift both latches. Contact blocks cannot be removed by lifting one latch only.
- . Do not apply excessive force to the latches, otherwise damage maybe

Transformer Units and DC-DC Converters

Insert the end of the contact block removal tool (TW-KC1) into the snap-fit latch of the transformer units or DC-DC converter and pull the tool forward. The contact block removable tool cannot be used to remove the HW-U contact blocks or full voltage adapters.



🗥 When replacing parts (contact block, dummy block, full voltage adapter, transformer) for maintenance, make sure to install the parts to the original position. Otherwise proper operation cannot be guaranteed

Transformer Units and DC-DC Converters for Pilot Lights

Unfasten the two mounting screws on the back to remove the transformer unit/ DC-DC converter.



Mounting screws

APN: M3 × 6 (screw diameter ø5.5 or below)

APD: M3.5 × 6 (screw diameter ø5.5 or below)

Operating Instructions

Applicable Wiring

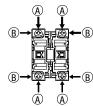
(1) Contact Block 0.3 to 3.5 mm² (solid wire 0.5 to 2.0 mm)

Pushbutton/illuminated pushbutton/selector switch/ illuminated selector switch/selector pushbutton

(A) and (B) show the wiring direction to the terminals.

<Contact Block>

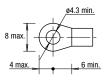
Terminal screws M3.5 (spring-up)

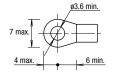


Applicable Crimping Terminal

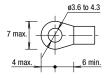
Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

Crimping terminal for (A)



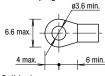


IP20 crimping terminal

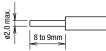


Crimping terminal for $\ensuremath{\mathbb{B}}$

IP20 crimping terminal



Solid wire



- Strip the wire insulation 8 to 9 mm from the end.
- Insert the wire until the insulation comes into contact with the terminal metal part.

(1)-1 IP20 Degree of Protection

The terminal of HW-U contact block has IP20 degree of protection. When IP20 is required for wiring, observe the followings.

Make sure to insert the crimping terminal or wire to the terminal straight and fully.

When using a crimping terminal

Use IP20 crimping terminals.

When using a solid wire

Strip the wire insulation 8 to 9 mm from the end and insert the wire to the terminal fully.

When using a stranded wire

Strip the wire insulation 8 to 9 mm from the end and insert the wire to the terminal fully. Make sure that the wires are not loosened.

(2) Power Unit

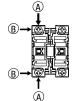
0.3 to 2 mm² (solid wire 0.5 to 1.6 mm)

Illuminated pushbutton/illuminated selector switch

A and B show the wiring direction to the terminals.

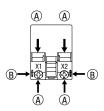
<Full Voltage Adapter>

Terminal screws M3.5 (spring-up)



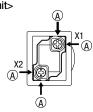
<Transformer Unit>

100/110V AC, 200/220V (240V AC or below) Terminal screws M3.5 (spring-up)



<DC-DC Conver Unit/Transformer Unit>

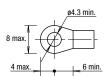
110V DC, 380V Terminal screws M3.5 (spring-up)

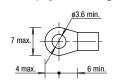


Applicable Crimping Terminal

Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

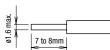
Crimping terminal for ${\Bbb A}$





Crimping terminal for (B)

Solid wire



- Strip the wire insulation 7 to 8 mm from the end.
- Insert the wire until the insulation comes into contact with the terminal metal part.
- Terminal cover is integrated in the full voltage adapter and transformer unit.
 Note that the connection terminal is not IP20.

APEM

Switches & Pilot Lights

Control Boxes

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ø30 TWN/TWND Series

Operating Instructions

(3) Pilot Light 0.3 to 2 mm² (solid wire 0.5 to 1.6 mm)

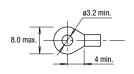
Applicable crimping terminal

Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

APN1, UPQN3B, UPQN4 (6, 12, 24V AC/DC)

Terminal screws M3 (self-lifting)

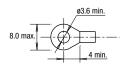
(Arrows show the wiring direction)





APD1 (6, 12V, 24V AC/DC)

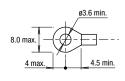
Terminal screws M3.5 (self-lifting)





APN1, UPQN3B, UPQN4, APD1 (100 to 480V AC or below, 110V DC)

Terminal screws M3.5 (self-lifting)





- Install the terminal cover supplied with the pilot light. The connection terminal is not IP20.
- When selecting mounting centers and crimping terminals, take sufficient insulation distance into consideration.

Cautions for Wiring

About using DC-DC Converter Unit

1. Note the polarity for wiring when connecting to the DC-DC converter.

Terminal No.	Polarity
X1	Positive
X2	Negative

- 2. Incandescent lamps cannot be used in DC-DC converter unit.
- DC-DC converters are equipped with an electric circuit and noise may be heard inside the unit, which does not affect the performance of DC-DC converters.

Recommended Tightening Torque Number of Wires

Unit		Wire	Number of Wires	Recommended Tightening Torque (Nm)	Terminal Screw	
	Crimp	oing Terminal	2	1.0 to 1.3		
	Solid	ø0.5 to 1.6 mm (AWG14 to 22)	2	1.0 to 1.3		
HW-U Contact	Wire	ø1.7 to 2.0 mm (AWG12)	1	1.2 to 1.3	M3.5	
Block	Stranded	0.3 to 2.0 mm ² (AWG14 to 22)	2	1.0 to 1.3		
	Wire	2.1 to 3.5 mm ² (AWG12)	1	1.2 to 1.3		
	Crimping Terminal					
Illuminated Unit (*1)	Solid Wire	ø0.5 to 1.6 mm (AWG14 to 22)	2	1.0 to 1.3	M3.5	
	Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)				
	Crimping Terminal					
Pilot Light	Solid Wire			0.6 to 1.0 (M3.0)		
	Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)		1.0 to 1.3 (M3.5)	

^{*1)} Lamp terminal of illuminated pushbuttons and illuminated selector switches

TWN

Miniature Pilot Lights

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Operator

Sensors AUTO-ID

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ø16 ø22

Miniature
Pilot Lights

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ø30 Selector Switches / Pushbuttons Part Number Replacement List

Model Operator Old Part No. New Part No. (*3) Remail ASN310	22) 11) 12) 11) 11)
ASN310 ASN210N ASN311 ASN211N ASN320 ASN22DN ASN322 ASN222N ASN375 ASN22RN-118 ASN410 ASN2111N ASN411 ASN2111N ASN420 ASN212DN ASN422 ASN212DN ASN422 ASN212DN ASN422 ASN212DN ASN422 ASN212DN ASN4010 ASN201N (*2 ASN3010 ASN201N (*2 ASN3020 ASN202DN (*2 ASN3020 ASN202DN (*1 ASN3020 ASN202DN (*1 ASN3075 ASN22RN-118 (*1 ASN4010 ASN2210N ASN4011 ASN2211N ASN4010 ASN221DN ASN4011 ASN221N ASN4020 ASN222DN ASN4021 ASN222DN ASN4021 ASN222DN ASN4075 ASN222RN-168 ASN111 ASN32DN (*2 ASN15S ASN32DN (*1 ASN122 ASN340N (*2 ASN15S ASN32DN (*1 ASN122 ASN340N (*1 ASN122 ASN340N (*1 ASN122 ASN340N (*1 ASN121 ASN322DN ASN15S ASN322N ASN15S ASN322N ASN15S ASN322N ASN111 ASN320N (*1 ASN221 ASN340N (*1 ASN222 ASN340N (*1 ASN222 ASN340N (*1 ASN222 ASN340N (*1) ASN222 ASN340N (*1) ASN222 ASN340N (*1) ASN2022 ASN340N (*1) ASN105S ASN322N (*1) ASN105S ASN312N (*1) ASN2022 ASN340N (*1) ASN2022 ASN340N (*1) ASN2023 ASN340N (*1) ASN2024 ASN340N (*1) ASN2025 ASN3100N (*1) ASN2025 ASN3100N (*1) ASN2026 ASN3100N (*1) ASN2027 ASN3100N (*1) ASN2028 ASN3104N ASN2011 ASN211N ASN312N (*1) ASN310 ASN2110 ASN211N ASN3110 ASN211N ASN3120N ASN3101	1) 2) 1) 1) 1)
ASN320 ASN220N ASN322 ASN222N ASN375 ASN22RN-118 ASN410 ASN2110N ASN411 ASN2111N ASN420 ASN2120N ASN422 ASN2122N 90° ASN475 ASN212RN-118 2-position ASN3010 ASN201N (*2 ASN3011 ASN201N (*2 ASN3020 ASN202N (*2 ASN3022 ASN202N (*1 ASN3020 ASN202N (*2 ASN3075 ASN222N-118 (*1 ASN4010 ASN2210N ASN4011 ASN2211N ASN4011 ASN2211N ASN4011 ASN221N ASN4011 ASN2220N ASN4022 ASN2220N ASN4022 ASN222N ASN4075 ASN222RN-168 ASN111 ASN320N (*2 ASN155 ASN322RN-168 ASN111 ASN320N (*2 ASN155 ASN302N (*1 ASN122 ASN340N (*1 ASN122 ASN340N (*1 ASN122 ASN340N (*1 ASN222 ASN3240N (*1 ASN222 ASN320N (*1) ASN222 ASN320N (*1) ASN223 ASN300N (*1) ASN205 ASN322N (*1) ASN1011 ASN320N (*1) ASN205 ASN322N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN105 ASN302N (*1) ASN1075 ASN302N (*1) ASN1085 ASN302N (*1) ASN1085 ASN300N (*1) ASN1095 ASN310N (*1) ASN2011 ASN3120N (*1) ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN2035 ASN3102N (*1) ASN2075 ASN3102N (*1) ASN2075 ASN3102N (*1) ASN2085 ASN3104N (*1) ASN2085 ASN3104N (*1) ASN2085 ASN3104N (*1) ASN3110 ASN211N ASN3120	1) 2) 1) 1) 1)
ASN 322 ASN222N ASN37S ASN22RN-118 ASN410 ASN411 ASN2111N ASN420 ASN2120N ASN422 ASN2122N ASN37S ASN2122N ASN3422 ASN2122N ASN347S ASN212N-118 ASN3010 ASN201N (*2 ASN3011 ASN201N ASN3020 ASN202N (*1 ASN3022 ASN222N (*1 ASN307S ASN22RN-118 (*1 ASN4010 ASN2210N ASN4011 ASN2211N ASN4020 ASN2220N ASN4002 ASN2220N ASN4002 ASN222N ASN407S ASN222RN-168 ASN4022 ASN300N (*2 ASN300N (*3 ASN300N (*1 ASN300N AS	1) 2) 1) 1) 1)
ASN37S ASN22RN-118 ASN410 ASN2110N ASN411 ASN2111N ASN420 ASN2120N ASN422 ASN2122N ASN47S ASN212RN-118 2-position ASN3010 ASN201N (*2 ASN3000 ASN202N (*2 ASN3000 ASN202N (*2 ASN3000 ASN202N (*2 ASN3000 ASN202N (*3 ASN47S ASN22RN-118 (*1 ASN307S ASN22RN-118 (*1 ASN4010 ASN2210N ASN4011 ASN2211N ASN4020 ASN222N ASN4011 ASN2211N ASN4020 ASN222N ASN4022 ASN222N ASN4022 ASN222N ASN407S ASN222RN-168 ASN111 ASN320N (*2 ASN111 ASN320N (*2 ASN15S ASN302N (*1 ASN111 ASN320N (*2 ASN17S ASN302N (*1 ASN120 ASN302N (*1 ASN211 ASN3220N (*2 ASN221 ASN304N (*1 ASN211 ASN3220N (*1 ASN222 ASN3240N (*2 ASN223 ASN304N (*1) ASN205 ASN302N (*1) ASN105 ASN300N (*1) ASN1011 ASN300N (*1) ASN1011 ASN300N (*1) ASN1022 ASN340N (*1) ASN1053 ASN302N (*1) ASN1054 ASN300N (*1) ASN1055 ASN300N (*1) ASN1055 ASN300N (*1) ASN1056 ASN300N (*1) ASN1057 ASN300N (*1) ASN1058 ASN300N (*1) ASN1058 ASN300N (*1) ASN1059 ASN3120N (*1) ASN2001 ASN3120N (*1) ASN2002 ASN3140N (*1) ASN2005 ASN3120N (*1) ASN2005 ASN3100N (*1) ASN2005 ASN3100N ASN3111 ASN211N ASN3111 ASN211N	1) 2) 1) 1) 1)
ASN410 ASN2110N ASN411 ASN2111N ASN420 ASN2120N ASN422 ASN2122N ASN475 ASN212RN-118 2-position ASN3010 ASN201N (*2 ASN3011 ASN211N (*1 ASN3020 ASN202N (*2 ASN3022 ASN222N (*1 ASN3075 ASN22RN-118 (*1 ASN4010 ASN2210N ASN4011 ASN2210N ASN4011 ASN2210N ASN4011 ASN2210N ASN4020 ASN2220N ASN4075 ASN222RN-168 ASN4076 ASN222N ASN4077 ASN222RN-168 ASN111 ASN320N (*2 ASN122 ASN340N (*2 ASN15S ASN322N ASN15S ASN322N ASN175 ASN302N (*1 ASN15S ASN302N (*1 ASN111 ASN320N (*2 ASN15S ASN304N (*1 ASN22 ASN320N (*1 ASN22 ASN320N (*1 ASN25 ASN320N (*1 ASN211 ASN320N (*1 ASN222 ASN3240N (*1 ASN275 ASN320N (*1) ASN275 ASN320N (*1) ASN202 ASN320N (*1) ASN105S ASN3100N (*1) ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN2023 ASN3102N (*1) ASN205S ASN3122N (*1) ASN205S ASN3122N (*1) ASN205S ASN3102N ASN205S ASN3102N ASN208S ASN3104N ASN2011 ASN2011 ASN2110N ASN208S ASN3104N ASN208S ASN3104N ASN2011 ASN2110 ASN2110N ASN208S ASN3104N ASN208S ASN3104N ASN208S ASN3104N ASN2011 ASN2111 ASN2111N ASN3120 ASN2111 ASN2111N ASN3120 ASN2111 ASN2111N ASN3120 ASN2120N	1) 2) 1) 1) 1)
ASN411 ASN2111N ASN420 ASN2120N ASN422 ASN2122N 90° ASN47S ASN212RN-118 ASN3010 ASN201N (*2 ASN3011 ASN201N (*1 ASN3020 ASN202N (*2 ASN3022 ASN222N (*1 ASN307S ASN22RN-118 (*1 ASN4010 ASN2210N ASN4011 ASN2211N ASN4011 ASN2211N ASN4020 ASN2220N ASN4022 ASN222N ASN407S ASN222RN-168 ASN407S ASN222RN-168 ASN111 ASN320N (*2 ASN122 ASN340N (*2 ASN15S ASN322N ASN17S ASN302N (*1 ASN15S ASN322N ASN17S ASN302N (*1 ASN18S ASN304N (*1 ASN211 ASN320N (*2 ASN222 ASN3240N (*2 ASN222 ASN3240N (*2 ASN222 ASN3240N (*1) ASN222 ASN320N (*1) ASN1011 ASN320N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN1022 ASN340N (*1) ASN105S ASN322N (*1) ASN107S ASN302N (*1) ASN107S ASN302N (*1) ASN107S ASN302N (*1) ASN107S ASN302N (*1) ASN108S ASN304N (*1) ASN107S ASN302N (*1) ASN202 ASN3140N (*1) ASN202 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN203S ASN3122N (*1) ASN205S ASN3122N (*1) ASN208S ASN3102N ASN208S ASN3104N ASN2011 ASN2011 ASN2011 ASN2012N ASN208S ASN3104N ASN208S ASN3104N ASN208S ASN3104N ASN2011 ASN208S ASN3104N ASN208S ASN3104N ASN2011 ASN2008 ASN3104N ASN208S ASN3104N ASN208S ASN3104N ASN208S ASN3104N ASN3111 ASN2111N ASN3120 ASN2120N	1) 2) 1) 1) 1)
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ASN 2-position	1) 2) 1) 1) 1)
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ASN17S ASN302N (*1 ASN18S ASN304N (*1 ASN111 ASN3220N (*2 ASN221 ASN3240N (*2 ASN222 ASN3240N (*2 ASN25S ASN3222N ASN27S ASN3202N (*1 ASN27S ASN3202N (*1) ASN1011 ASN320N (*1) ASN1011 ASN320N (*1) ASN105S ASN322N (*1 ASN105S ASN322N (*1 ASN107S ASN302N ASN107S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN207S ASN3122N (*1 ASN207S ASN3102N (*1) ASN207S ASN3102N (*1) ASN208S ASN3104N ASN208S ASN3104N ASN3110 ASN2L10N ASN3111 ASN2L11N ASN3120 ASN2L20N	<u>2)</u>
ASN18S ASN304N (*1 ASN211 ASN3220N (*2 ASN222 ASN3240N (*2 ASN25S ASN3222N ASN27S ASN3202N (*1 ASN27S ASN3202N (*1) ASN1011 ASN320N (*1) ASN1011 ASN320N (*1) ASN105S ASN322N (*1 ASN105S ASN322N (*1) ASN107S ASN302N ASN108S ASN304N ASN2011 ASN304N ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN2025 ASN3122N (*1) ASN207S ASN3102N (*1) ASN207S ASN3102N (*1) ASN208S ASN3102N (*1) ASN208S ASN3104N (*1) ASN3110 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	4.
ASN211 ASN3220N (*2 ASN222 ASN3240N (*2 ASN25S ASN3222N ASN27S ASN3202N (*1 ASN27S ASN3202N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN105S ASN322N (*1 ASN107S ASN302N ASN107S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2011 ASN3120N (*1) ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1) ASN205S ASN3122N (*1) ASN205S ASN3102N (*1) ASN206S ASN3102N (*1) ASN207S ASN3102N (*1) ASN208S ASN3104N ASN2011 ASN2110 ASN2110 ASN2111 ASN2111N ASN3120 ASN2111	
ASN222 ASN3240N (*2 ASN25S ASN3222N ASN27S ASN3202N (*1 ASN27S ASN3202N (*1) ASN28S ASN3204N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN105S ASN322N (*1 ASN107S ASN302N ASN108S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1 ASN205S ASN3122N (*1) ASN207S ASN3102N ASN208S ASN3102N ASN208S ASN3104N ASN3110 ASN2L11N ASN3L10 ASN2L11N ASN3L20 ASN2L20N	
ASN25S ASN3222N ASN27S ASN3202N (*1 ASN28S ASN3204N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN105S ASN322N (*1 ASN107S ASN302N ASN107S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1) ASN205S ASN3102N ASN207S ASN3102N ASN207S ASN3102N ASN208S ASN3104N ASN3110 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	
ASN27S ASN3202N (*1 ASN28S ASN3204N (*1) ASN1011 ASN320N (*1) ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN105S ASN322N (*1 ASN107S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1) ASN205S ASN3122N (*1) ASN207S ASN3102N ASN207S ASN3102N ASN208S ASN3104N ASN3110 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	<u>-)</u>
45° ASN28S ASN3204N (*1) 3-position ASN1011 ASN320N (*1) ASN1022 ASN340N (*1) ASN105S ASN322N (*1) ASN107S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1) ASN207S ASN3102N ASN208S ASN3104N ASN3110 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	1\
ASN1011	
ASN1022 ASN340N (*1) ASN105S ASN322N (*1) ASN107S ASN302N ASN108S ASN304N ASN2011 ASN3120N (*1) ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1) ASN207S ASN3102N ASN208S ASN3104N ASN3110 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	
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ASN2022 ASN3140N (*1) ASN205S ASN3122N (*1) ASN207S ASN3102N ASN208S ASN3104N ASN3L10 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	
ASN205S ASN3122N (*1 ASN207S ASN3102N ASN208S ASN3104N ASN3L10 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	(*2)
ASN207S ASN3102N ASN208S ASN3104N ASN3L10 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	(*2)
ASN208S ASN3104N ASN3L10 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	1)
ASN3L10 ASN2L10N ASN3L11 ASN2L11N ASN3L20 ASN2L20N	
ASN3L11 ASN2L11N ASN3L20 ASN2L20N	
ASN3L20 ASN2L20N	
VCVIOLOGO VCVIOLOGIN	
ASN3L22 ASN2L22N	
ASN3L7S ASN2L2RN-118	
ASN4L10 ASN21L10N	
ASN4L11 ASN21L11N ASN4L20 ASN21L20N	
ASN4L20 ASN21L20N ASN4L22 ASN21L22N	
90° ASN4L7S ASN21L2RN-118	
2-position ASN30L10 ASN2L01N (*2	2)
ASN30L11 ASN2L11N (*1	
ASN30L20 ASN2L02N (*2	
ASN-L ASN30L22 ASN2L22N (*1	
Lever Operator ASN30L7S ASN2L2RN-118 (*1	
ASN40L10 ASN22L10N	
ASN40L11 ASN22L11N	
ASN40L20 ASN22L20N	
ASN40L22 ASN22L22N	
ASN40L7S ASN22L2RN-168	
ASN1L11 ASN3L20N (*2	
ASN1L22 ASN3L40N (*2	
ASN1L5S ASN3L22N	
45° ASN1L7S ASN3L02N (*1	2)
	2)
ASN2L11 ASN32L20N (*2 ASN2L22 ASN32L40N (*2	1)
ASN2L22 ASN32L40N (*2 ASN2L5S ASN32L22N	1)

	Old Series	3	Nous Part No. (40)	Dament
Model	Operator	Old Part No.	New Part No. (*3)	Remarks
		ASN2L7S	ASN32L02N	(*1)
		ASN2L8S	ASN32L04N	(*1)
		ASN10L11	ASN3L20N	(*1) (*2)
		ASN10L22	ASN3L40N	(*1) (*2)
ASN-L		ASN10L5S	ASN3L22N	(*1)
Lever	45°	ASN10L7S	ASN3L02N	
Operator	3-position	ASN10L8S	ASN3L04N	(+4) (+0)
		ASN20L11	ASN31L20N	(*1) (*2)
		ASN20L22 ASN20L5S	ASN31L40N ASN31L22N	(*1) (*2) (*1)
		ASN20L7S	ASN31L02N	(1)
		ASN20L8S	ASN31L04N	
		ASN3K10□	ASN2K10N□-N024401	
		ASN3K11□	ASN2K11N□-N024401	
		ASN3K20□	ASN2K20N□-N024401	
		ASN3K22□	ASN2K22N□-N024401	
		ASN3K7S□	ASN2K2RN□-118-N024401	
		ASN4K10	ASN21K10N-N024401	
		ASN4K11	ASN21K11N-N024401	
		ASN4K20	ASN21K20N-N024401	
		ASN4K22	ASN21K22N-N024401	
	90°	ASN4K7S	ASN21K2RN-118-N024401	(1.0)
	2-position	ASN30K10□	ASN2K01N - N024401	(*2)
		ASN30K11	ASN2K11N□-N024401	(*1)
		ASN30K20□ ASN30K22□	ASN2K02N□-N024401 ASN2K22N□-N024401	(*2) (*1)
		ASN30K7S	ASN2K2RN□-N024401 ASN2K2RN□-118-N024401	(*1)
		ASN40K10	ASN22K10N-N024401	(1)
	-	ASN40K11	ASN22K11N-N024401	
		ASN40K20	ASN22K20N-N024401	
		ASN40K22	ASN22K22N-N024401	
ASN-K		ASN40K7S	ASN22K2RN-168-N024401	
Key Selector		ASN1K11□	ASN3K20N□-N024401	(*2)
Selector		ASN1K22□	ASN3K40N□-N024401	(*2)
		ASN1K5S□	ASN3K22N□-N024401	(*1) (*2)
		ASN1K7S□	ASN3K02N□-N024401	(*1) (*2)
		ASN1K8S□	ASN3K04N□-N024401	(*1) (*2)
		ASN2K11□	ASN32K20N□-N024401	(*2)
		ASN2K22□	ASN32K40N□-N024401	(*2)
		ASN2K5S	ASN32K22N□-N024401	(*1) (*2)
	4=0	ASN2K7S□	ASN32K02N - N024401	(*1) (*2)
	45° 3-position	ASN2K8S□ ASN10K11□	ASN32K04N□-N024401 ASN3K20N□-N024401	(*1) (*2) (*1) (*2)
	3-position	ASN10K11	ASN3K40N - NO24401	(*1) (*2)
		ASN10K5S	ASN3K22N -N024401	(*1) (*2)
		ASN10K7S	ASN3K02N□-N024401	(*2)
		ASN10K8S□	ASN3K04N□-N024401	(*2)
		ASN20K11□	ASN31K20N□-N024401	(*1) (*2)
		ASN20K22□	ASN31K40N□-N024401	(*1) (*2)
		ASN20K5S□	ASN31K22N□-N024401	(*1) (*2)
		ASN20K7S□	ASN31K02N□-N024401	(*2)
		ASN20K8S□	ASN31K04N□-N024401	(*2)
		ASTN3211	ASN211N	
	90°	ASTN3222	ASN222N	(*1)
	2-position	ASTN4211	ASN2111N	(44)
		ASTN4222	ASN2122N	(*1)
		ASTN1122	ASN322N ASN322N_211	-
		ASTN1222 ASTN1340	ASN322N-311 ASN340N	
ASTN		ASTN1340 ASTN1422	ASN322N-209	
Knob		ASTN1422 ASTN1520	ASN320N	
Operator	45°	ASTN1540	ASN340N	(*1)
	3-position	ASTN1611	ASN311N-303	''/
		ASTN1622	ASN322N-310	
		ASTN2122	ASN3222N	
		ASTN2222	ASN3222N-311	
		ASTN20122	ASN3122N	
		ASTN20222	ASN3122N-311	_

 $[\]bullet$ \square : Key removable position code. Specify the same code as the old series.

^{*1)} The location of contacts is different. In application for maintenance purpose, make sure of contact operation before wiring.

 $^{^{\}star}2)$ Contact operation is same as the old series, but contact type is different.

^{*3)} The knob operator is diecast zinc and has new shape. The knob operator can be installed at 45 degrees intervals.

ø30 Selector Switches / Pushbuttons Part Number Replacement List

e e		Old Se	rige		
	Model	Operator	Old Part No.	New Part No. (*3)	Remarks
gh:	IVIOGOI	Οροιαιοι	ASTN20422	ASN3122N-209	
ङ			ASTN20520	ASN3120N	(*1)
	ASTN		ASTN20540	ASN3140N	(*1)
	Knob	45°	ASTN5120	ASN3320N	, ,
APEM	Operator	3-position	ASTN5122	ASN3322N	
			ASTN5222	ASN3322N-311	
Switches & Pilot Lights			ASTN5111	ASN3311N-202	
			ASTN32L11	ASN2L11N	
Control Boxes		90°	ASTN32L22	ASN2L22N	(*1)
Emergency		2-position	ASTN42L11	ASN21L11N	
Stop Switches			ASTN42L22	ASN21L22N	(*1)
Enabling Switches			ASTN11L22	ASN3L22N	
			ASTN12L22	ASN3L22N-311 ASN3L40N	
Safety Products			ASTN13L40 ASTN14L22	ASN3L22N-209	
Evaluation Broof			ASTN14L22 ASTN15L20	ASN3L20N	(*1)
Explosion Proof			ASTN15L40	ASN3L40N	(*1)
Terminal Blocks	ASTN■L		ASTN16L11	ASN3L11N-303	\ '/
	Lever		ASTN16L22	ASN3L22N-310	
Relays & Sockets	Operator	450	ASTN21L22	ASN32L22N	
Circuit		45° 3-position	ASTN22L22	ASN32L22N-311	
Protectors		3-position	ASTN201L22	ASN31L22N	
Power Supplies			ASTN202L22	ASN31L22N-311	
			ASTN204L22	ASN31L22N-209	
LED Illumination			ASTN205L20	ASN31L20N	(*1)
			ASTN205L40	ASN31L40N	(*1)
Controllers			ASTN51L20	ASN33L20N	
Operator			ASTN51L22	ASN33L22N	
Interfaces			ASTN52L22	ASN33L22N-311 ASN33L11N-202	
Sensors	Sensors AUTO-ID	90° 2-position	ASTN51L11 ASTN32K11□	ASN2K11N□	
			ASTN32K11□ ASTN32K22□	ASN2K11N□ ASN2K22N□	(*1)
AUTO-ID			ASTN42K11	ASN21K11N	
			ASTN42K22	ASN21K22N	(*1)
			ASTN11K22□	ASN3K22N□	
			ASTN12K22□	ASN3K22N□-311	
Flush Silhouette			ASTN13K40□	ASN3K40N□	
			ASTN14K22□	ASN3K22N□-209	
ø16			ASTN15K20□	ASN3K20N□	(*1)
			ASTN15K40□	ASN3K40N□	(*1)
ø22	ASTN■K		ASTN16K11□	ASN3K11N□-303	
ø30	Key		ASTN16K22□	ASN3K22N□-310	
900	Selector	45°	ASTN21K22□ ASTN22K22□	ASN32K22N□ ASN32K22N□-311	
Miniature		3-position	ASTN22R22□ ASTN201K22□	ASN31K22N□	
			ASTN201K22□	ASN31K22N□-311	
Pilot Lights			ASTN204K22□	ASN31K22N□-209	
			ASTN205K20□	ASN31K20N□	(*1)
			ASTN205K40□	ASN31K40N□	(*1)
			ASTN51K20	ASN33K20N	
TWN			ASTN51K22	ASN33K22N	
			ASTN52K22	ASN33K22N-311	
TWND			ASTN51K11	ASN33K11N-202	
4011			ASN120-T	ASN320N	
ARN	ASN-T	450	ASN140-T	ASN340N	
CS	Knob	45°	ASN220-T	ASN3220N	
	Operator	3-position	ASN240-T ASN2020-T	ASN3240N ASN3120N	(*1)
			ASN2020-1 ASN2040-T	ASN3140N	(*1)
			ASN1L20-T	ASN3L20N	(1)
			ASN1L40-T	ASN3L40N	
	ASN-T	45°	ASN2L20-T	ASN32L20N	
	Lever	3-position	ASN2L40-T	ASN32L40N	
	Operator		ASN20L20-T	ASN31L20N	(*1)
			ASN20L40-T	ASN31L40N	(*1)

 Specify a color code in place of * 	🛚 in Part No. B (black), G (green), R (red), Y (y	/ellow).
The second state and the second	Occasión de la companya de la confluencia del la confluencia del la confluencia de la confluencia del la confluencia de la confluencia del la c	

 $[\]square$: Key removable position code. Specify the same code as the old series.

Model Operator Old Part No. New Part No. ("3) Remarks		Old Series				
ASNIBLE	Model			New Part No. (*3)	Remarks	
ASNIK2CD -T ASN2K2CN - ASN2K2CN - ASN3K2CD -T ASN2K2RN -118 ASN4K10-T ASN2K1K10N ASN2K1K10N ASN4K10-T ASN21K10N ASN4K10-T ASN21K10N ASN4K2C-T ASN2K2CN - ASN4K2C-T ASN2K2CN - ASN4K2C-T ASN2K2CN - ASN4K2C-T ASN2K2CN - ASN4K2C-T ASN2K2K10N ASN4K0K10-T ASN2K2K10N ASN4K0K10-T ASN2EXCN - ASN40K2C-T ASN2EXCN - ASN40K2C-T ASN2EXCN - ASN2EXCN - ASN40K2C-T ASN2EXCN - ASN40K2C-T ASN2EXCN - ASN40K2C-T ASN2EXCN - ASN40K2C-T ASN2EXCN - ASN40K10-T ASN2EXCN - ASN1K400-T ASN3K40N - ASN1K3S -T ASN3K20N - ASN1K3S -T ASN3K20N - ASN2K3C-T ASN3EXCN - (*1) ASN2CXS-T ASN3EXCX - (*1) ASN2CXS-T ASN3EXCX - (*1) ASN2CXS-T (*1)						
ASNIBLE						
ASNIMENTED ASN					1	
ASNIK-T						
ASNAME						
ASN#K2-T						
ASNWEATH						
ASN#OK10-T						
ASNIEK-T Key Selector ASNIEK-T Key Selector ASNIEK-T Key Selector ASNIEKSD -T ASNIEKSD			ASN4K7S-T	ASN21K2RN-118		
ASNIBLET ASNIBLE ASN			ASN40K10-T			
ASN=K-T Key Selector Sele						
ASNIK- Key Selector						
ASN1K20	ASN■K-T					
ASNIK40 T ASN3K40N ASN1K7S T ASN3K02N (*1)						
ASNIKSS -T ASN3K02N	Selector					
ASN1K7S -T ASN3K02N (*1)						
ASN2K2OU-T ASN32K2ON ASN2K4OU-T ASN32K4OU-T ASN32K4OU-T ASN32K2OU-T ASN32K2OU-T ASN32K2OU-T ASN32K2OU-T ASN32K2OU-T ASN2K8SD-T ASN32K0AU-T ASN2OK2OU-T ASN2OK2OU-T ASN31K2OU-T ASN2OK4OU-T ASN31K2OU-T ASN2OK4OU-T ASN31K2OU-T ASN2OK4OU-T ASN31K2OU-T ASN2OK4OU-T ASN31K2OU-T ASN2OK4OU-T ASN31K2OU-T ASN2OK4SD-T ASN31K0AU-T ASN2OK8SD-T ASN31K0AU-T ASN2OK8SD-T ASN31K0AU-T ASN2OK8SD-T ASN31K0AU-T ASN2OK8SD-T ASN31K0AU-T ASN2OK8SD-T ASN31K0AU-T ASN2OK8SD-T ASN2OU-DOT ASN2OW-DOT (*1)					(*1)	
ASN2K40			ASN1K8S□-T	ASN3K04N□	(*1)	
ASN2K5S -T ASN32K22N (*1)						
ASN2/RSS - ASN32/RO2N		45°				
ASN2K/SST					/*4)	
ASN20K20 - T						
ASN20K40						
ASN20K5S - T ASN31K22N (*1)						
ASN20K8S -T ASN31K04N ASN20K8S -T ASN31K04N ASN20K8S -T ASN31K04N ASN20K8S -T ASN31K04N ASN20K8S -T ASN20K8S -T ASN31K04N ASN20K8S -T ASN21N-K04 ASN20K9S -T ASN22N-K15 ASN22N-C10 (*1) (*1) ASN22N-C10 (*1) (*1) ASN22N-C10 (*1) (*1) (*1) ASN22N-C10 (*1)						
ABN6111			ASN20K7S□-T	ASN31K02N□		
ABN6411						
Selector Pushbuttons Ring Operator ABN6122						
Selector Pushbuttons Ring Operator ABN6122					(*2)	
ABN6122						
Pushbuttons Ring Operator ABN6222□ ASBN222N-C10□ (*1) ABN6422□ ASBN222N-K15□ (*2) ABN7122□ ASBN222N-E10□ (*1) ABN7122□ ASBN222N-E10□ (*1) ABN7122□ ASBN222N-E10□ (*1) ABN7122□ ASBN222N-E10□ (*1) ABN6422□ ASBN222N-F10□ (*1) ABN7122□ ASBN222N-F10□ (*1) ABN9122□ N/A ABN66111□ ASBN211N-K04□ (*2) (*4) ABN6L121□ ASBN221N-K04□ (*2) (*4) ABN6L122□ ASBN222N-A08□ (*1) (*1) (*4) ABN6L122□ ASBN222N-C10□ (*1) (*4) ABN6L22□ ASBN222N-K15□ (*2) (*4) ABN7L122□ ASBN222N-E10□ (*1) (*4) ABN7L122□ ASBN222N-E10□ (*1) (*4) ABN7L122□ ASBN222N-E10□ (*1) (*4) ABN8P112□ ASBN222N-E10□ (*1) (*4) ABN8P10 ABDRP10N□ (*5) ABN8P11 ABDRP11N□ (*5) ABN8P11 ABDRP11N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P11 ABDRPN10N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P20 ABDRP20N□ (*5) ABN8P21 ABDRPN10N□ (*5) ABN8P20 ABDRPN10N□ (*5) ABN8P20 ABDRPN	Salactor				(*1)	
Ring Operator ABN6422						
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AINZ3UZL AZN3UZNL					-	
*3) The knob operator is diecast zinc and in new shape. The knob operator can be installed at				`		

^{*3)} The knob operator is diecast zinc and in new shape. The knob operator can be installed at 45 degrees intervals.

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^{*1)} The location of contacts is different. In application for maintenance purpose, make sure of contact operation before wiring.
*2) Contact operation is same as the old series, but contact type is different.

^{*4)} The new knob operator of selector pushbuttons is ring operator. The old series is lever operator.

^{*5)} Button material New series: plastic / Old series: metal

Ordering Terms and Conditions

Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

- (1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined
 - Also, durability varies depending on the usage environment and usage
- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards.
 - Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
 - Use of IDEC products with sufficient allowance for rating and performance
 - Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
 - Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
- (4) Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.
- (5) IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.
 - Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health
 - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
 - Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs. such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

4. Warranty

(1) Warranty period

The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

(2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- The product was handled or used deviating from the conditions / environment listed in the Catalogs
- The failure was caused by reasons other than an IDEC product
- Modification or repair was performed by a party other than IDEC
- The failure was caused by a software program of a party other than iv **IDEC**
- v. The product was used outside of its original purpose
- Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and
- vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from
- viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters) Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

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