

# DR series

Control switch ( $\varnothing 16$ ,  $\varnothing 22$ )

- $\varnothing 16$ ,  $\varnothing 22$  series
- 1a1b one-body type
- Long life with the bright LED light source
- Assembling type (actuator and contact part)



## Specification

### + Push button switch

Model	Chrome plated guard type	
	Flat $\varnothing 22$	Protrusion $\varnothing 16$
Appearance		
Actuator code	DRF-A	DRF-R
Model	Plastic guard type	
	Flat $\varnothing 22$	Protrusion $\varnothing 16$
Appearance		
Actuator code	DRF-K	DRF-T
Model	Plastic guard type	
	Square $\varnothing 16$	Rectangular $\varnothing 16$
Appearance		
Actuator code	DRF-S	DRF-O

### + Illuminated pushbutton switch

Model	Chrome plated guard type	
	Flat $\varnothing 22$	Protrusion $\varnothing 16$
Appearance		
Actuator code	DRX-A	DRX-R
Model	Plastic guard type	
	Flat $\varnothing 22$	Protrusion $\varnothing 16$

Appearance		
Actuator code	DRX-K	DRX-T

Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRX-S	DRX-O

## + Indicator light

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRP-A	DRP-R

Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRP-K	DRP-T

Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRP-S	DRP-O

## + Selector switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16

Appearance		
Actuator code	DRS-A	DRS-R
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRS-K	DRS-T
Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRS-S	DRS-O

## + Illuminated selector switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRT-A	DRT-R
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRT-K	DRT-T
Model	Plastic guard type	
	Square Ø16	Rectangular Ø16

Appearance		
Actuator code	DRT-S	DRT-O

### + KEY selector switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRK-A	DRK-R

Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRK-K	DRK-T

Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRK-S	DRK-O

### + Emergency stop switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRE-AM	DRE-RM
Appearance		

Actuator code	DRE-AA (Self-holding)	DRE-RA (Self-holding)
Appearance		
Actuator code	DRE-AR	DRE-RR

Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRE-KM	DRE-TM
Appearance		
Actuator code	DRA-KA (Self-holding)	DRA-TA (Self-holding)
Appearance		
Actuator code	DRE-KR	DRE-TR

### + Illuminated emergency stop switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRA-AM	DRA-RM
Appearance		
Actuator code	DRA-AA (Self-holding)	DRA-RA (Self-holding)
Appearance		
Actuator code	DRA-AR	DRA-RR
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16

Appearance		
Actuator code	DRA-KM	DRA-TM
Appearance		
Actuator code	DRA-KA (Self-holding)	DRA-TA (Self-holding)
Appearance		
Actuator code	DRA-KR	DRA-TR

## + DRF

### - Push button switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRF-A	DRF-R
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRF-K	DRF-T
Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRF-S	DRF-O

### - Specification

Contact Structure	1c contact
Contact Behavior	Snap-action

<b>Installation panel thickness</b>	1 ~ 6 mm (Without accessories)
<b>Rated voltage</b>	250 V a.c.
<b>Current Rating</b>	3 A 250 V a.c.
<b>Insulation resistance</b>	100 MΩ or more (500 V d.c.)
<b>Dielectric strength</b>	1,500 V a.c. 50/60 Hz 1 minute
<b>Contact resistance</b>	50 mΩ or less (Initial values)
<b>Vibration resistance</b>	10 ~ 55 Hz double amplitude 1.5 mm
<b>Shock resistance</b>	300 m/s <sup>2</sup> or more (30 G or more)
<b>Durability</b>	
<b>Malfunction</b>	100 m/s <sup>2</sup> or more (10 G or more)
<b>Life</b>	
<b>Mechanical</b>	1,000,000 times or more
<b>Electrical</b>	200,000 times or more (Rated load)
<b>LAMP Input Power</b>	100 - 240 V a.c. (LED resistor voltage dropping method) 12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
<b>Ambient temperature</b>	-10 ~ 50 °C (Without condensation or icing)
<b>Ambient humidity</b>	45 ~ 85 % RH
<b>Preservation ambient temperature</b>	-40 ~ 70 °C
<b>Certification</b>	

## + DRX

### - Illuminated pushbutton switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRX-A	DRX-R

Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRX-K	DRX-T

Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRX-S	DRX-O

- Specification

Contact Structure	1c contact
Contact Behavior	Snap-action
Installation panel thickness	1 ~ 6 mm (Without accessories)
Rated voltage	250 V a.c.
Current Rating	3 A 250 V a.c.
Insulation resistance	100 MΩ or more (500 V d.c.)
Dielectric strength	1,500 V a.c. 50/60 Hz 1 minute
Contact resistance	50 mΩ or less (Initial values)
Vibration resistance	10 ~ 55 Hz double amplitude 1.5 mm
Shock resistance	300 m/s <sup>2</sup> or more (30 G or more)
Durability	100 m/s <sup>2</sup> or more (10 G or more)
Malfunction	
Life	1,000,000 times or more
Mechanical	
Electrical	200,000 times or more (Rated load)
LAMP Input Power	100 - 240 V a.c. (LED resistor voltage dropping method) 12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
Ambient temperature	-10 ~ 50 °C (Without condensation or icing)
Ambient humidity	45 ~ 85 % RH
Preservation ambient temperature	-40 ~ 70 °C
Certification	

+ DRP

- Indicator light

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRP-A	DRP-R
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRP-K	DRP-T
Model	Plastic guard type	
	Square Ø16	Rectangular Ø16

Appearance		
Actuator code	DRP-S	DRP-O

#### - Specification

Contact Structure	1c contact
Contact Behavior	Snap-action
Installation panel thickness	1 ~ 6 mm (Without accessories)
Rated voltage	250 V a.c.
Current Rating	3 A 250 V a.c.
Insulation resistance	100 MΩ or more (500 V d.c.)
Dielectric strength	1,500 V a.c. 50/60 Hz 1 minute
Contact resistance	50 mΩ or less (Initial values)
Vibration resistance	10 ~ 55 Hz double amplitude 1.5 mm
Shock resistance	300 m/s <sup>2</sup> or more (30 G or more)
Durability	100 m/s <sup>2</sup> or more (10 G or more)
Malfuction	
Life	1,000,000 times or more
Mechanical	200,000 times or more (Rated load)
LAMP Input Power	100 - 240 V a.c. (LED resistor voltage dropping method) 12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
Ambient temperature	-10 ~ 50 °C (Without condensation or icing)
Ambient humidity	45 ~ 85 % RH
Preservation ambient temperature	-40 ~ 70 °C
Certification	

#### + DRS

##### - Selector switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRS-A	DRS-R

Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16

Appearance		
Actuator code	DRS-K	DRS-T
Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRS-S	DRS-O

#### - Specification

Contact Structure	1c contact
Contact Behavior	Snap-action
Installation panel thickness	1 ~ 6 mm (Without accessories)
Rated voltage	250 V a.c.
Current Rating	3 A 250 V a.c.
Insulation resistance	100 MΩ or more (500 V d.c.)
Dielectric strength	1,500 V a.c. 50/60 Hz 1 minute
Contact resistance	50 mΩ or less (Initial values)
Vibration resistance	10 ~ 55 Hz double amplitude 1.5 mm
Shock resistance	300 m/s <sup>2</sup> or more (30 G or more)
	100 m/s <sup>2</sup> or more (10 G or more)
Life	Mechanical 1,000,000 times or more
	Electrical 200,000 times or more (Rated load)
LAMP Input Power	100 - 240 V a.c. (LED resistor voltage dropping method)
	12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
Ambient temperature	-10 ~ 50 °C (Without condensation or icing)
Ambient humidity	45 ~ 85 % RH
Preservation ambient temperature	-40 ~ 70 °C
Certification	

#### + DRT

##### - Illuminated selector switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16

<b>Appearance</b>		
<b>Actuator code</b>	DRT-A	DRT-R
<b>Model</b>	<b>Plastic guard type</b>	
	Flat Ø22	Protrusion Ø16
<b>Appearance</b>		
<b>Actuator code</b>	DRT-K	DRT-T
<b>Model</b>	<b>Plastic guard type</b>	
	Square Ø16	Rectangular Ø16
<b>Appearance</b>		
<b>Actuator code</b>	DRT-S	DRT-O

#### - Specification

<b>Contact Structure</b>	1c contact
<b>Contact Behavior</b>	Snap-action
<b>Installation panel thickness</b>	1 ~ 6 mm (Without accessories)
<b>Rated voltage</b>	250 V a.c.
<b>Current Rating</b>	3 A 250 V a.c.
<b>Insulation resistance</b>	100 MΩ or more (500 V d.c.)
<b>Dielectric strength</b>	1,500 V a.c. 50/60 Hz 1 minute
<b>Contact resistance</b>	50 mΩ or less (Initial values)
<b>Vibration resistance</b>	10 ~ 55 Hz double amplitude 1.5 mm
<b>Shock resistance</b>	300 m/s <sup>2</sup> or more (30 G or more)
<b>Durability</b>	100 m/s <sup>2</sup> or more (10 G or more)
<b>Malfunction</b>	100 m/s <sup>2</sup> or more (10 G or more)
<b>Life</b>	1,000,000 times or more
<b>Mechanical</b>	200,000 times or more (Rated load)
<b>LAMP Input Power</b>	100 - 240 V a.c. (LED resistor voltage dropping method) 12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
<b>Ambient temperature</b>	-10 ~ 50 °C (Without condensation or icing)
<b>Ambient humidity</b>	45 ~ 85 % RH
<b>Preservation ambient temperature</b>	-40 ~ 70 °C
<b>Certification</b>	

## + DRK

### - KEY selector switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRK-A	DRK-R
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRK-K	DRK-T
Model	Plastic guard type	
	Square Ø16	Rectangular Ø16
Appearance		
Actuator code	DRK-S	DRK-O

### - Specification

Contact Structure	1c contact
Contact Behavior	Snap-action
Installation panel thickness	1 ~ 6 mm (Without accessories)
Rated voltage	250 V a.c.
Current Rating	3 A 250 V a.c.
Insulation resistance	100 MΩ or more (500 V d.c.)
Dielectric strength	1,500 V a.c. 50/60 Hz 1 minute
Contact resistance	50 mΩ or less (Initial values)
Vibration resistance	10 ~ 55 Hz double amplitude 1.5 mm
Shock resistance	300 m/s <sup>2</sup> or more (30 G or more)
Durability	100 m/s <sup>2</sup> or more (10 G or more)
Malfunction	100 m/s <sup>2</sup> or more (10 G or more)
Life	1,000,000 times or more
Mechanical	1,000,000 times or more
Electrical	200,000 times or more (Rated load)
LAMP Input Power	100 - 240 V a.c. (LED resistor voltage dropping method)
	12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
Ambient temperature	-10 ~ 50 °C (Without condensation or icing)
Ambient humidity	45 ~ 85 % RH

Preservation ambient temperature	-40 ~ 70 °C
Certification	

## + DRE

- Emergency stop switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRE-AM	DRE-RM
Appearance		
Actuator code	DRE-AA (Self-holding)	DRE-RA (Self-holding)
Appearance		
Actuator code	DRE-AR	DRE-RR

Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRE-KM	DRE-TM
Appearance		
Actuator code	DRE-KA (Self-holding)	DRE-TA (Self-holding)
Appearance		
Actuator code	DRE-KR	DRE-TR

- Specification

Contact Structure	1c contact
Contact Behavior	Snap-action

<b>Installation panel thickness</b>	1 ~ 6 mm (Without accessories)
<b>Rated voltage</b>	250 V a.c.
<b>Current Rating</b>	3 A 250 V a.c.
<b>Insulation resistance</b>	100 MΩ or more (500 V d.c.)
<b>Dielectric strength</b>	1,500 V a.c. 50/60 Hz 1 minute
<b>Contact resistance</b>	50 mΩ or less (Initial values)
<b>Vibration resistance</b>	10 ~ 55 Hz double amplitude 1.5 mm
<b>Shock resistance</b>	300 m/s <sup>2</sup> or more (30 G or more)
<b>Durability</b>	
<b>Malfunction</b>	100 m/s <sup>2</sup> or more (10 G or more)
<b>Life</b>	
<b>Mechanical</b>	1,000,000 times or more
<b>Electrical</b>	200,000 times or more (Rated load)
<b>LAMP Input Power</b>	100 - 240 V a.c. (LED resistor voltage dropping method) 12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
<b>Ambient temperature</b>	-10 ~ 50 °C (Without condensation or icing)
<b>Ambient humidity</b>	45 ~ 85 % RH
<b>Preservation ambient temperature</b>	-40 ~ 70 °C
<b>Certification</b>	

## + DRA

### - Illuminated emergency stop switch

Model	Chrome plated guard type	
	Flat Ø22	Protrusion Ø16
Appearance		
Actuator code	DRA-AM	DRA-RM
Appearance		
Actuator code	DRA-AA (Self-holding)	DRA-RA (Self-holding)
Appearance		
Actuator code	DRA-AR	DRA-RR
Model	Plastic guard type	
	Flat Ø22	Protrusion Ø16

<b>Appearance</b>		
<b>Actuator code</b>	DRA-KM	DRA-TM
<b>Appearance</b>		
<b>Actuator code</b>	DRA-KA (Self-holding)	DRA-TA (Self-holding)
<b>Appearance</b>		
<b>Actuator code</b>	DRA-KR	DRA-TR

#### - Specification

<b>Contact Structure</b>	1c contact
<b>Contact Behavior</b>	Snap-action
<b>Installation panel thickness</b>	1 ~ 6 mm (Without accessories)
<b>Rated voltage</b>	250 V a.c.
<b>Current Rating</b>	3 A 250 V a.c.
<b>Insulation resistance</b>	100 MΩ or more (500 V d.c.)
<b>Dielectric strength</b>	1,500 V a.c. 50/60 Hz 1 minute
<b>Contact resistance</b>	50 mΩ or less (Initial values)
<b>Vibration resistance</b>	10 ~ 55 Hz double amplitude 1.5 mm
<b>Shock resistance</b>	300 m/s <sup>2</sup> or more (30 G or more)
<b>Malfunction</b>	100 m/s <sup>2</sup> or more (10 G or more)
<b>Mechanical</b>	1,000,000 times or more
<b>Electrical</b>	200,000 times or more (Rated load)
<b>LAMP Input Power</b>	100 - 240 V a.c. (LED resistor voltage dropping method) 12 - 24 V d.c. / a.c. (LED resistor voltage dropping method)
<b>Ambient temperature</b>	-10 ~ 50 °C (Without condensation or icing)
<b>Ambient humidity</b>	45 ~ 85 % RH
<b>Preservation ambient temperature</b>	-40 ~ 70 °C
<b>Certification</b>	