

Reed Auto Switch Direct Mounting Type D-Z73/D-Z76/D-Z80



Refer to SMC website for the details of the products conforming to the international standards.

Grommet



Caution

Precautions

1. Do not drop or bump the auto switch while handling it as it may result in the auto switch breaking.
2. Do not remove the protective cover attached to the product body until the product is ready to be mounted on the actuator.
3. Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Auto Switch Specifications

PLC: Programmable Logic Controller

D-Z7 (With indicator light)			
Auto switch model	D-Z73		D-Z76
Applicable load	Relay, PLC		IC circuit
Load voltage	24 VDC ⁽⁴⁾	100 VAC	4 to 8 VDC
Max. load current and load current range ⁽³⁾	5 to 40 mA	5 to 20 mA	20 mA
Internal circuit*	③		⑤
Contact protection circuit	None		
Internal voltage drop	2.4 V or less (Up to 20 mA)/3 V or less (Up to 40 mA)		0.8 V or less
Indicator light	Red LED illuminates when turned ON.		
Standard	CE marking		
D-Z8 (Without indicator light)			
Auto switch model	D-Z80		
Applicable load	Relay, PLC, IC circuit		
Load voltage	24 V _{DC} ^{AC} or less	48 V _{DC} ^{AC}	100 V _{DC} ^{AC}
Maximum load current	50 mA	40 mA	20 mA
Internal circuit*	④		
Contact protection circuit	None		
Internal resistance	1 Ω or less (Including 3 m lead wire)		
Standard	CE marking		

Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-Z73	D-Z76	D-Z80
Sheath	Outside diameter [mm]	ø2.7	ø3.4	ø2.7
	Number of cores	2 cores (Brown/Blue)	3 cores (Brown/Blue/Black)	2 cores (Brown/Blue)
Insulator	Outside diameter [mm]	ø1.1		
	Effective area [mm ²]	0.18	0.2	0.18
Conductor	Strand diameter [mm]	ø0.08		
	Lead wire minimum bending radius [mm] (Reference values)	17	21	17

* Refer to the applicable internal circuit diagram (numbers ① to ⑦) on page 1587.

Note 1) Refer to page 1584 for reed auto switch common specifications.

Note 2) Refer to page 1584 for lead wire lengths.

Note 3) Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

Note 4) The auto switches can operate at 12 VDC, but consider the internal voltage drop of the auto switch described in Reed Auto Switch Precautions on page 12.

Weight

(g)

Auto switch model		D-Z73	D-Z76	D-Z80
Lead wire length	0.5 m (NII)	7	10	7
	3 m (L)	31	55	31
	5 m (Z)	50	—	—

Dimensions

(mm)

