Reed Auto Switch Direct Mounting Type D-A90(V)/D-A93(V)/D-A96(V) (€

Grommet D-A93 D-A90 (V) D-A93V

Precautions

D-A96 (V)

- 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

the products conforming to the international standards.

	PLC: Programmable Logic Controlle						
D-A90, D-A90	V (Without indicate	or light)					
Auto switch model	D-A90, D-A90V						
Applicable load	IC circuit, Relay, PLC						
Load voltage	24 V DC or less	48 V AC or less	100 V DC or less				
Maximum load current	50 mA	40 mA	20 mA				
Internal circuit*	4						
Contact protection circuit	None						
Internal resistance	1 Ω or less (Including lead wire length of 3 m)						
Standard	CE marking						
D-A93, D-A93V, D-A96, D-A96V (With indicator light)							
Auto switch model	D-A93, D-A93V		D-A96, D-A96V				
Applicable load	Relay, PLC		IC circuit				
Load voltage	24 VDC(4)	100 VAC	4 to 8 VDC				
Load current range and Maximum load current (3)	5 to 40 mA	5 to 20 mA	20 mA				
Internal circuit*		(5)					
Contact protection circuit	None						
Internal voltage drop	D-A93: 2.4 V or less (up to 20 D-A93V: 2.7 V or less	0.8 V or less					
Indicator light	Red LED illuminates when turned ON.						
Standard	CE marking						

Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-A90(V)	D-A93(V)	D-A96(V)		
Sheath	Outside diameter [mm]	ø2.7				
Insulator	Number of cores	2 cores (Brown/Blue)		3 cores (Brown/Blue/Black)		
	Outside diameter [mm]	ø0.96		ø0.91		
Conductor	Effective area [mm²]	0.18		0.15		
	Strand diameter [mm]	ø0.08				
Lead wire minimum bending radius [mm] (Reference values)		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)

Model		D-A90	D-A90V	D-A93	D-A93V	D-A96	D-A96V
Lead wire length	0.5 m (NiI)	6	6	6	6	8	8
	1 m (M)	_	_	11	_	_	_
	3 m (L)	30	30	30	30	41	41
	5 m (Z)	_	_	47	47	_	_

Dimensions (mm)



