

# Reed Auto Switch Tie-rod Mounting Type D-A5□/□/ D-A6□□



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

Grommet



## Auto Switch Specifications

PLC: Programmable Logic Controller

D-A5 (With indicator light)					
Auto switch model	D-A53	D-A54		D-A56	
Applicable load	PLC	Relay, PLC		IC circuit	
Load voltage	24 VDC <sup>(4)</sup>	24 VDC <sup>(4)</sup>	100 VAC	200 VAC	4 to 8 VDC
Maximum load <sup>(3)</sup> current and range	5 to 50 mA	5 to 50 mA	5 to 25 mA	5 to 12.5 mA	20 mA
Circuit diagram*	③	①		⑤	
Contact protection circuit	None	Built-in		None	
Internal voltage drop	2.4 V or less	2.4 V or less (Up to 20 mA)/3.5 V or less (Up to 50 mA)		0.8 V or less	
Indicator light	Red LED illuminates when turned ON.				
Standard	CE marking				
D-A6 (Without indicator light)					
Auto switch model	D-A64			D-A67	
Applicable load	Relay, PLC			PLC/IC circuit	
Load voltage	24 V <sup>AC</sup> <sub>DC</sub> or less	100 VAC	200 VAC	Max. 24 VDC	
Maximum load current	50 mA	25 mA	12.5 mA	30 mA	
Circuit diagram*	②			④	
Contact protection circuit	Built-in			None	
Internal resistance	25 Ω or less			1 Ω or less (Including lead wire length of 3 m)	
Standard	CE marking				

## Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-A53/A54	D-A56	D-A64/A67
Sheath	Outside diameter [mm]	ø4		
Insulator	Number of cores	2 cores (Brown/Blue)	3 cores (Brown/Blue/Black)	2 cores (Brown/Blue)
	Outside diameter [mm]	ø1.22		
Conductor	Effective area [mm <sup>2</sup> ]	0.3	0.2	0.3
	Strand diameter [mm]	ø0.08		
Lead wire minimum bending radius [mm] (Reference values)		24		

\* Refer to the circuit diagram no. 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-A53	D-A54	D-A56	D-A64	D-A67
Lead wire length	0.5 m (NII)	24	—	24	—	24
	3 m (L)	80	—	80	—	80
	5 m (Z)	125	—	—	—	—

## Dimensions

(mm)

