

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 ⁽⁴⁾	24 VDC ⁽⁴⁾	100 VAC	200 VAC
Maximum load ⁽³⁾ current and range	5 to 50 mA	5 to 50 mA	5 to 25 mA	5 to 12.5 mA
Internal circuit [*]	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 ^{AC} _{DC} or less	100 VAC	200 VAC	Max. 24 VDC
Maximum load current	50 mA	25 mA	12.5 mA	30 mA
Internal circuit [*]	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)
Insulator Outside diameter [mm]	ø1.22		
Conductor Effective area [mm ²]	0.3	0.2	0.3
Conductor Strand diameter [mm]	ø0.08		
Lead wire minimum bending radius [mm] (Reference value)	24		

* 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-A53	D-A54	D-A56	D-A64	D-A67
Lead wire length	0.5 m (Nil)	24	24	24	24
	3 m (L)	80	80	80	80
	5 m (Z)	125	—	—	—

Dimensions

(mm)

