Reed Switch/Direct Mounting

D-Z73/D-Z76/D-Z80

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Applicable Actuator Series

Series	Bore size (mm)
MGQ, MVGQ, MGP	ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100
CXS	ø6, ø10, ø15, ø20, ø25, ø32
RSH	ø20, ø32, ø50, ø63, ø80
MY1B	ø25, ø32, ø40, ø50, ø63, ø80, ø100
MY1M, MY1C, CY1R	ø25, ø32, ø40, ø50, ø63
MY1H, ML2B	ø25, ø32, ø40
MGF	ø40, ø63, ø100
CY1H	ø10, ø15, ø20, ø25, ø32

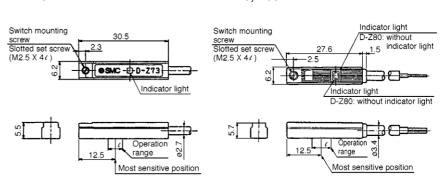
Specifications

-						
D-Z7 (With indicator light)						
Auto swich model number	D-2	Z73	D-Z76			
Application	Relay	IC circuit				
Load voltage	24V DC	100V AC	4 to 8V DC			
Max. load current and load current range	5 to 40mA	5 to 20mA	20mA			
Contact protection circuit	None					
Internal voltage drop	c 2.4V (up to 20mA)/c 3V (up to 30mA) c 0.8V					
Indicator light	ON: V	ON: When red light emitting diode				

3	_	1 3 1 3 1 3 1 1 1				
D-Z8 (Without indicator light)						
Auto switch model number	D-Z80					
Application	Relay/PLC/IC circuit					
Load voltage	24V AC or less	48V AC or less	100V AC or less			
Max. load current	50mA	40mA	20mA			
Contact protection circuit	None					
Internal resistance	12 or less (Including 3m lead wire)					

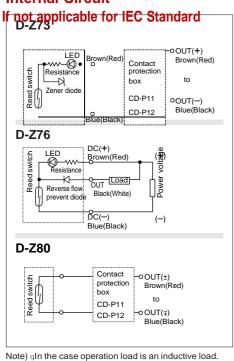
Dimensions





Operation F	≀ang	je											(mm)
Actuator series						Bore	size						
Actuator series	6	10	12	15	16	20	25	32	40	50	63	80	100
MGQ, MVGQ	_	_	7.5	_	8.5	9.5	9.5	11	11	11	13	13	14
CXS	9	7	_	9	_	9	9	11	_	_	_	_	_
MGP	_	_	7.5	_	10	10	10	10.5	10.5	10.5	11.5	11.5	12
RSH	_	_	_	_	_	8.5	_	7	_	9.5	10.5	11.5	_
MY1B	_	_	_	_	_	_	12	12	12	12	12	12	12
MY1M, MY1C	_	_	_	_	_	_	12	12	12	12	12	_	_
MY1H, ML2B	_	12 12 12						_					
MGF	_	_	_	_	_	_	_	_	13.5	_	12	_	13
CY1H	_	8	_	6	_	6	6	9	_	_	_		_
CY1R	_	_	_	_	_	_	9	9	11	11	11	_	_

Internal Circuit



 $\mathbf{w}\text{In}$ the case the wiring length to ">" 5m. eIn the case the load voltage is 100V AC.

Be sure to use the auto switch with the contact protection box in any case mentioned above. Refer to the p.5.3-6 for the details of contact protection box.

Reed Switch BERME **Direct Mounting Style** D-A90(V)/D-A93(V)/D-A96(V)

For details about certified products For details about certified products conforming to international standards, visit us a twenty segment of comvisit us at www.smcworld.com.

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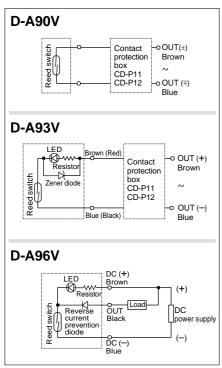


⚠ Caution

Precautions

1. Fix the switch with appropriate screw installed on the switch body. If using other screws, switch may be damaged.

Auto Switch Internal Circuit Colors of lead wire inside () are the ones before conformed to IEC standard.



Note 1) Operating load is an induction load. Note 2) Wiring to the load is 5 m or longer. Note 3) Load voltage is 100 VAC.

Use the contact protection box in any of the above listed situations. The contact point life may decrease. (Refer to page 6-16-7 for contact protection box.)

Auto Switch Specifications

PLC: Abbreviation of Programmable Logic Controller

D-A90, D-A90V (Without indicator light)							
Auto switch model	D-A90, D-A90V						
Applicable load	IC circuit, Relay, PLC						
Load voltage	24 V AC or less	48 V AC or less	100 V AC or less				
Maximum load current	50 mA	40 mA	20 mA				
Contact protection circuit	None						
Internal resistance	1.O.or les	s (Including lead wire len	ath of 3 m)				

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	100 VAC	4 to 8 VDC				
Load current range and Maximum load current	5 to 40 mA	5 to 20 mA	20 mA				
Contact protection circuit	None						
Internal voltage drop	D-A93 — 2.4 V or less (up to 20 mA)/3 V or less (up to 40 mA) D-A93V — 2.7 V or less 0.8 V or less						
Indicator light		Red LED lights when ON.					

D-A90(V)/D-A93(V)—Oil resistant vinyl heavy-duty cord, ø2.7, 0.18 mm² x 2 cores (Brown, Blue), 0.5 m D-A96(V)—Oil resistant vinyl heavy-duty cord, ø2.7, 0.15 mm² x 3 cores (Brown, Black, Blue), 0.5 m Note 1) Regarding the common specifications of the reed switches, refer to page 6-16-7

Note 2) Regarding the lead wire length, refer to page 6-16-7.

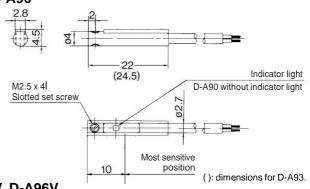
Note 3) Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

Weight

						(9)
Model	D-A90	D-A90V	D-A93	D-A93V	D-A96	D-A96V
Lead wire length: 0.5 m	6	6	6	6	8	8
Lead wire length: 3 m	30	30	30	30	41	41

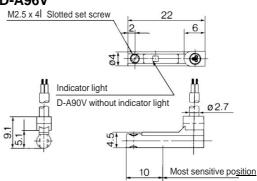
Dimensions

D-A90, D-A93, D-A96



D-A90V. D-A93V. D-A96V

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Reed Auto Switch Band Mounting Type D-C73/D-C76/D-C80

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Auto Switch Specifications

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

PLC: Programmable Logic Controller



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D 07 (M/H 1 1 1 1 1 1 1	- `					
D-C7 (With indicator ligh	t)					
Auto switch model	D-C	D-C73 D-C76				
Applicable load	Relay	Relay, PLC IC circuit				
Load voltage	24 VDC ⁽⁴⁾	100 VAC	4 to 8 VDC			
Max. load current and range (3)	5 to 40 mA	5 to 20 mA	20 mA			
Circuit diagram*	3 5					
Contact protection circuit	None					
Internal voltage drop	2.4 V or less 0.8 V or less					
Indicator light	Red LEI	Dilluminates when turn	ed ON.			
Standard		CE marking				
D-C8 (Without indicator I	ight)					
Auto switch model		D-C80				
Applicable load		Relay, PLC, IC circuit				
Load voltage	24 V AC or less	48 V AC	100 V AC			
Max. load current	50 mA	40 mA	20 mA			
Circuit diagram*	4					
Contact protection circuit	None					
Internal resistance	1 Ω or less (li	1 Ω or less (Including lead wire length of 3 m)				

Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-C73 D-C76 D-C80				
Sheath	Outside diameter [mm]	ø3.4				
Insulator	Number of cores	2 cores (Brown/Blue)	3 cores (Brown/Blue/Black)	2 cores (Brown/Blue)		
Ilisulatoi	Outside diameter [mm]	ø1.1				
Conductor	Effective area [mm ²]	0.2				
Conductor Strand diameter [mm]		ø0.08				
Lead wire minimum bending radius [mm] (Reference values)		21				

* 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

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 swite	ch model	D-C73	D-C76	D-C80
	0.5 m (Nil)	9	10	9
Lead wire length	3 m (L)	46	50	46
	5 m (Z)	76	_	_

Dimensions

(mm)

