

Applicable Cylinder Series 1

Cylinder series		04 06, Ø10, Ø16	CDJP2
Bore size		06 Ø10, Ø16	CDJ2
Solid state auto switches	D-H7		
	D-H7C		
Solid state auto switches	D-H7BAL		
	D-H7NF		
Solid state auto switches	D-H7W		
	D-G5/K5		
Solid state auto switches	D-G5BAL		
	D-G59F		
Solid state auto switches	D-G5NTL		
	D-G5W/K59W		
Solid state auto switches	D-G39/K39		
	D-G39A/K39A		
Solid state auto switches	D-F7/J7		
	D-J79C		
Solid state auto switches	D-F79F		
	D-F7BAL		
Solid state auto switches	D-F7BAVL		
	D-F7W		
Solid state auto switches	D-F7NTL		
	D-F7W (V)		
Solid state auto switches	D-F5/J5		
	D-F5BAL		
Solid state auto switches	D-F5W/J59W		
	D-F59F		
Solid state auto switches	D-F5NTL		
	D-G39C/K39C		
Solid state auto switches	D-M9		
	D-M9V		
Solid state auto switches	D-M9W		
	D-M9WV		
Solid state auto switches	D-M9AL		
	D-M9AVL		
Solid state auto switches	D-Y5/Y6/Y7W/Y7V		
	D-Y7BAL		
Solid state auto switches	D-Y7W/Y7WV		
	D-M5		
Solid state auto switches	D-M5W		
	D-M5TL		
Solid state auto switches	D-P3DW		
	D-P4DWL		
Solid state auto switches	D-F9G/H		
	D-Y7G/H		
Solid state auto switches	D-G5NBL		
	D-F7NJL		
Solid state auto switches	D-F6		
	D-F8		
Reed auto switches	D-C7/C8		
	D-C73C/C80C		
Reed auto switches	D-B5/B6		
	D-B59W		
Reed auto switches	D-A3/A4		
	D-A3JA/A44A		
Reed auto switches	D-A3CA/A44C		
	D-A7/A8		
Reed auto switches	D-A7H/A80H		
	D-A73C/A80C		
Reed auto switches	D-A79W		
	D-A5/A6		
Reed auto switches	D-A59W		
	D-A9		
Reed auto switches	D-A9V		
	D-E7A/E80A		
Reed auto switches	D-Z7/Z8		
	D-P7		
Reed auto switches	D-B3		
Actuator page reference (●: Best Pneumatics)		② P.21	
Actuator page reference (●: Best Pneumatics)		② P.39	
Actuator page reference (●: Best Pneumatics)		② P.125	
Actuator page reference (●: Best Pneumatics)		② P.219	
Actuator page reference (●: Best Pneumatics)		② P.285	
Actuator page reference (●: Best Pneumatics)		② P.1515	
Actuator page reference (●: Best Pneumatics)		② P.329	
Actuator page reference (●: Best Pneumatics)		② P.353	
Actuator page reference (●: Best Pneumatics)		② P.1516	
Actuator page reference (●: Best Pneumatics)		② P.409	
Actuator page reference (●: Best Pneumatics)		② P.447	
Actuator page reference (●: Best Pneumatics)		② P.463	
Actuator page reference (●: Best Pneumatics)		② P.479	
Actuator page reference (●: Best Pneumatics)		② P.547	
Actuator page reference (●: Best Pneumatics)		② P.599	
Actuator page reference (●: Best Pneumatics)		② P.1410	
Actuator page reference (●: Best Pneumatics)		② P.771	
Actuator page reference (●: Best Pneumatics)		② P.791	
Actuator page reference (●: Best Pneumatics)			CDQ2
Actuator page reference (●: Best Pneumatics)			CDQ2-XB14
Actuator page reference (●: Best Pneumatics)			CQU
Actuator page reference (●: Best Pneumatics)			MDU-Z
Actuator page reference (●: Best Pneumatics)			CDJ5-S
Actuator page reference (●: Best Pneumatics)			CDG5-S
Actuator page reference (●: Best Pneumatics)			HYDB
Actuator page reference (●: Best Pneumatics)			HYDQ

Applicable Cylinder Series 1

Cylinder series		Bore size											
Solid state auto switches	D-H7 D-H7C D-H7BAL D-H7NF D-H7□W D-G5/K5 D-G5BAL D-G59F D-G5NTL D-G5□W/K59W D-G39/K39 D-G39A/K39A D-F7/J7 D-J79C D-F79F D-F7BAL D-F7BAVL D-F7□V D-F7NTL D-F7□W (V) D-F5/J5 D-F5BAL D-F5□W/J59W D-F59F D-F5NTL D-G39C/K39C D-M9 D-M9□V D-M9□W D-M9□WV D-M9□AL D-M9□AVL D-Y5/Y6/Y7□/Y7□V D-Y7BAL D-Y7□W/Y7□WV D-M5 D-M5□W D-M5□TL D-P3DW□ D-P4DWL D-F9G/H D-Y7G/H D-G5NBL D-F7NJL D-F6□ D-F8□ D-C7/C8 D-C73C/C80C D-B5/B6 D-B59W D-A3/A4 D-A3□A/A44A D-A3□C/A44C D-A7/A8 D-A7□H/A80H D-A73C/A80C D-A79W D-A5/A6 D-A59W D-A9 D-A9□V D-E7□A/E80A D-Z7/Z8 D-P7 D-B3	Ø32 to Ø63 HYDC Ø32 to Ø63 HYDG Ø25 to Ø32 MY1B-Z Ø10 to Ø20 Ø25 to Ø40, Ø63 to Ø100 MY1B Ø50 Ø16, Ø20 Ø25 to Ø63 Ø16, Ø20 Ø25 to Ø63 Ø10 to Ø20 Ø25 to Ø40 Ø50, Ø63 Ø16, Ø20 Ø25 to Ø63 Ø16, Ø25, Ø40 Ø16 to Ø63 Ø6 to Ø20 Ø25 to Ø63 Ø6 to Ø40 Ø10 to Ø32 CY1H Ø10, Ø15, Ø25 Ø15, Ø32 CYP Ø6 to Ø20 Ø6 to Ø16 Ø6 to Ø25 Ø6 to Ø25 Ø6 to Ø25 Ø8 to Ø20 Ø8 to Ø25 MXJ Ø4, Ø6, Ø8 Ø6 to Ø16 MXF Ø6, Ø10, Ø12, Ø16 MXY Ø8 to Ø40 MTS Ø6, Ø10 MGJ Ø12 to Ø20 Ø25 Ø32 to Ø100											
Reed auto switches		② P.943	② P.1057 ② P.1085 ② P.1121 ② P.1178 ③ P.1189 ③ P.1213 ③ P.1229 ③ P.1249 ③ P.15 ③ P.35 ③ P.49 ③ P.87 ③ P.133 ③ P.147 ③ P.169 ③ P.189 ③ P.213 ③ P.229 ③ P.255 ③ P.263										
Actuator page reference (●: Best Pneumatics)													

Prior to Use

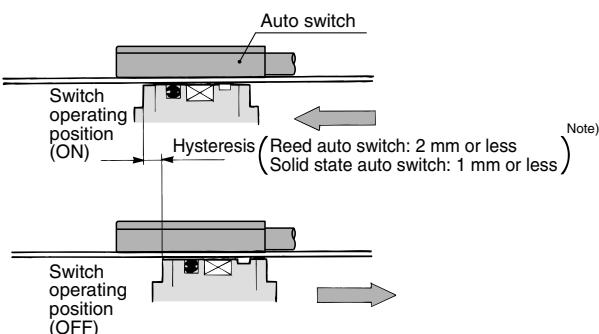
Auto Switches Common Specifications 2

⚠ Specific Product Precautions

Refer to the Auto Switch Precautions on pages 8 to 11 before using auto switches.

Auto Switch Hysteresis

Hysteresis is the distance between the position at which piston movement operates an auto switch to the position at which reverse movement turns the switch off. This hysteresis is included in part of the operating range (one side).



Note) Hysteresis may fluctuate due to the operating environment.
Please contact SMC if hysteresis causes an operational problem.

Contact Protection Box: CD-P11, CD-P12

<Applicable switch models>

D-A7/A8, D-A7□H/A80H, D-A73C/A80C, D-C7/C8, D-C73C/C80C, D-E7□A, E80A, D-Z7/Z8, D-9/9□A, D-A9/A9□V, and D-A79W type
The auto switches above do not have a built-in contact protection circuit. A contact protection box is not required for solid state auto switches due to their construction.

- ① Where the operation load is an inductive load.
- ② Where the wiring length to load is greater than 5 m.
- ③ Where the load voltage is 100/200 VAC.

Therefore, use a contact protection box with the switch for any of the above cases:

The contact life may be shortened (due to permanent energizing conditions.)

D-A72(H) must be used with the contact protection box regardless of load types and lead wire length since it is greatly affected by loads.

(Where the load voltage is 110 VAC)

When the load voltage is increased by more than 10% to the rating of applicable auto switches (except D-A73C/A80C/C73C/C80C/90/97/A79W) above, use a contact protection box (CD-P11) to reduce the upper limit of the load current by 10% so that it can be set within the range of the load current range, 110 VAC.

Even for the built-in contact protection circuit type (D-A34[A][C], D-A44[A][C], D-A54/A64, D-A59W, D-B59W), use the contact protection box when the wiring length to load is very long (over 30 m) and PLC (Programmable Logic Controller) with a large inrush current is used.

Contact Protection Box Specifications

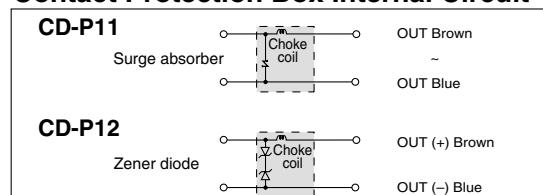
Part no.	CD-P11	CD-P12
Load voltage	100 VAC or less	200 VAC
Max. load current	25 mA	12.5 mA



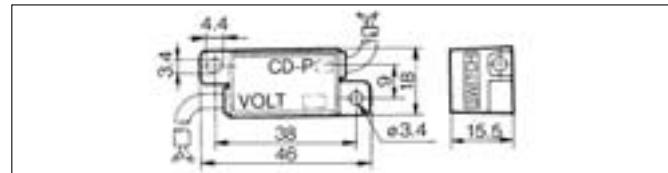
* Lead wire length — Auto switch connection side 0.5 m

Load connection side 0.5 m

Contact Protection Box Internal Circuit



Contact Protection Box/Dimensions



Contact Protection Box Connection

To connect a switch unit to a contact protection box, connect the lead wire from the side of the contact protection box marked SWITCH to the lead wire coming out of the switch unit. Keep the switch as close as possible to the contact protection box, with a lead wire length of no more than 1 meter.

D-□