

Applicable Cylinder Series 1

Cylinder series		CDJP2		CDJ2		CDM2		CDM3		CDG1		CDG3		MDB		MDB-X1184		MDB1		CDA2		CDA2-X1184		CDS1		CDS2		CDUJ		CDU		CDQS		CDQ2				CDQ2-XB14		RDQ		CDQM		CQU		MDU-Z		CDJ5-S		CDG5-S		HYDB		HYDQ	
		ø4	ø6, ø10, ø16	ø6	ø10, ø16	ø20 to ø40	ø20 to ø40	ø20 to ø63	ø80, ø100	ø20, ø63	ø80, ø100	ø32 to ø125	ø40 to ø100	ø32 to ø125	ø40 to ø100	ø40 to ø100	ø125 to ø200	ø125 to ø160	ø6 to ø20	ø6 to ø32	ø12 to ø20	ø25	ø12 to ø25	ø32 to ø100	ø125 to ø160	ø180 to ø200	ø16 to ø63	ø20, ø25	ø32 to ø50	ø12 to ø25	ø32 to ø100	ø20 to ø40	ø25 to ø63	ø10, ø16	ø20 to ø100	ø20 to ø63	ø80, ø100	ø20 to ø63																	
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Auto Switch Guide

D-☐

Prior to Use

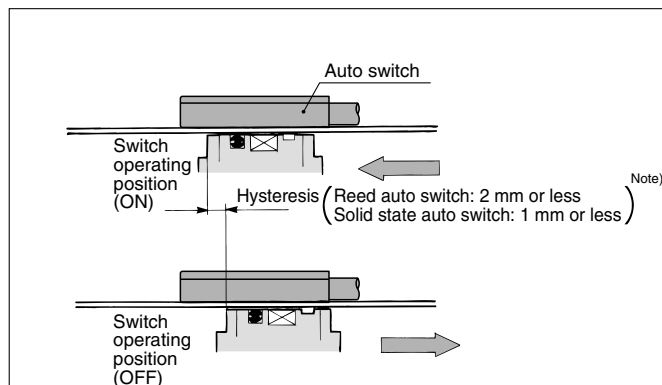
Auto Switches Common Specifications 2

⚠ 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).



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.

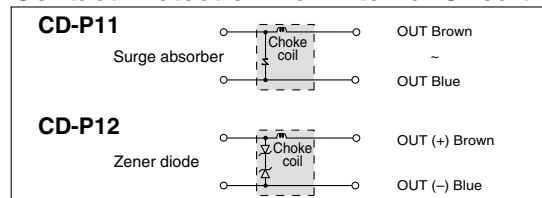
Even for the built-in contact protection circuit type (D-A34[A][C], D-A44[A][C], D-A54/A64, D-A59W, D-B59W), use the contact protection box when the wiring length to load is very long (over 30 m) and PLC (Programmable Logic Controller) with a large inrush current is used.

Contact Protection Box Specifications

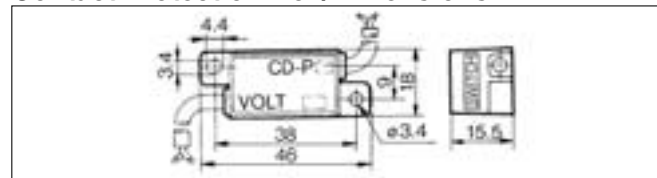
Part no.	CD-P11	CD-P12
Load voltage	100 VAC or less	200 VAC
Max. load current	25 mA	12.5 mA

* 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-□