

Heat Resistant 2-Colour Indicator Solid State Auto Switch



- Heat resistant (Max. 150 °C) type added to the D-M9□ compact auto switch.
- Choice of output types: PNP, NPN

How to Order

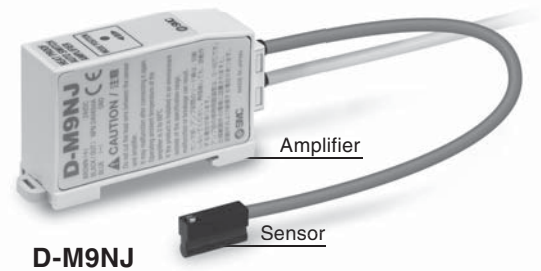
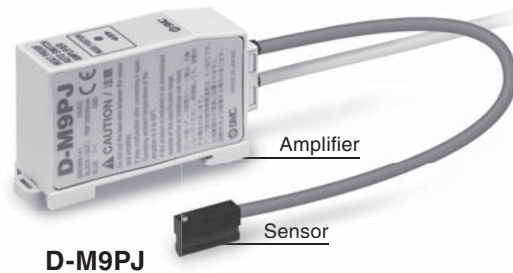
D-M9 **P** **J** **L**

Output specifications

Symbol	Specification
N	NPN output
P	PNP output

Lead wire length

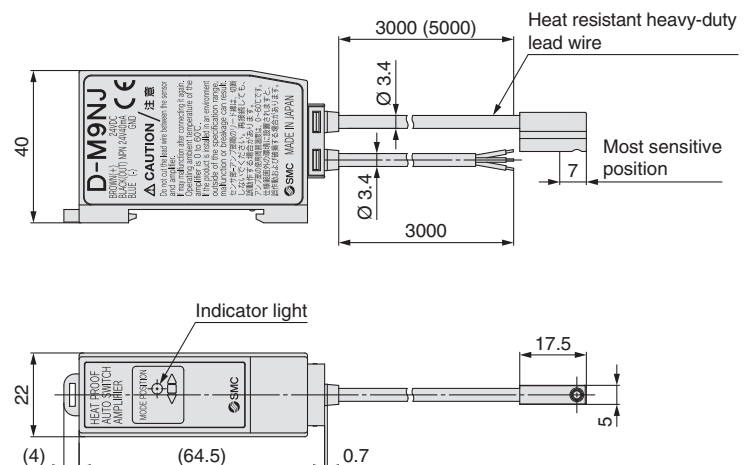
Symbol	Specification
L	Between the sensor and amplifier: 3 m, Amplifier section: 3 m
Z	Between the sensor and amplifier: 5 m, Amplifier section: 3 m



Auto Switch Specifications

D-M9NJ, D-M9PJ (With indicator light)		
Auto switch model	D-M9NJ	D-M9PJ
Output type	NPN	PNP
Power supply voltage	5, 12, 24 V DC (4.5 to 28 V)	
Current consumption	25 mA or less	
Load voltage	28 V DC or less	—
Load current	40 mA or less	
Internal voltage drop	0.8 V or less	
Leakage current	100 μA or less at 24 V DC	
Indicator light	Operating range Red LED lights up. Optimum operating range Green LED lights up.	
Ambient temperature	Sensor section: 0 to 150 °C Amplifier section: 0 to 60 °C	
Impact resistance	Sensor section: 1000 m/s ² Amplifier section: 300 m/s ²	
Standards	CE marking, RoHS	

Dimensions



Cylinder with Heat Resistant Auto Switch: -XB14 (Made to Order)

Applicable Cylinder

Series	Description	Model	Action	Applicable bore size [mm]							Note
				16	20	25	32	40	50	63	
CDQ2	Compact cylinder	CDQ2-XB14	Double acting, Single rod	●	●	●	●	●	●	●	Except with rubber bumper

Series **D-M9□ J**



15-EU644-UK

How to Order

With auto switch **CDQ2** - **D** **Z** - - **M9PJL** - **XB14**

Mounting •
 Type •
 Bore size (See Table 1.) •
 Port thread type •
 Cylinder stroke (See Table 1.) •
 Body option •
 Mounting bolt •
 Rod end bracket •

• Number of auto switches
 • Cylinder with heat resistant auto switch
 • Auto switch

Symbol	Output
M9NJ	NPN
M9PJ	PNP

* Lead wire length symbols
 3 m L (Example) M9NJL
 5 m Z (Example) M9NJZ

Symbols other than those for the auto switch are the same as the standard type. For details, refer to the Auto Switch Guide on www.smc.eu.

Specifications

Ambient and fluid temperature range	0 to 150 °C
Seal material	Fluororubber
Grease	Heat resistant grease
Standard stroke	See Table 1.
Dimensions	See below.
Specifications other than above	Same as standard type

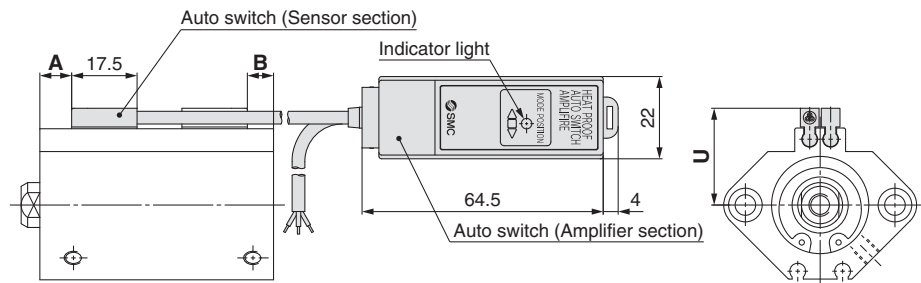
Table 1 Cylinder Strokes [mm]

Bore size	Stroke
16	15, 20, 25, 30
20, 25	15, 20, 25, 30, 35, 40, 45, 50
32 to 63	15, 20, 25, 30, 35, 40, 45, 50, 75, 100

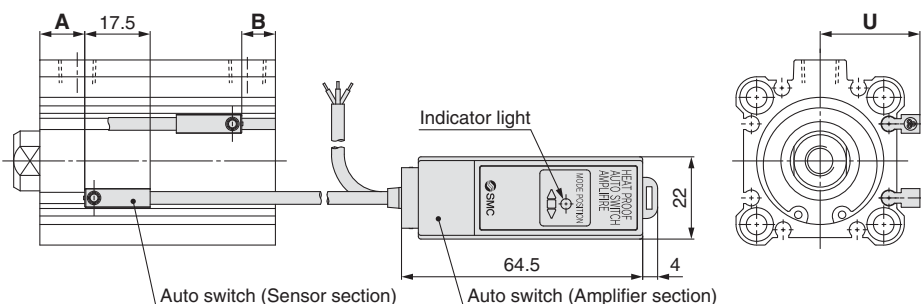
● Manufacturing of intermediate strokes
 Intermediate strokes in 1 mm increments are available by using spacers with standard stroke cylinders.

Dimensions (Dimensions other than those shown below are the same as the standard type. Refer to the Auto Switch Guide on www.smc.eu.)

Ø 16 to Ø 25



Ø 32 to Ø 63



Auto Switch Proper Mounting Position (Detection at stroke end) and Its Mounting Height [mm]

Auto switch model	D-M9□J		
	A	B	U
16	9.5	7	21
20	9.5	8.5	23.5
25	9.5	9	27
32	11	8	29
40	15	10.5	31
50	13	13.5	36
63	15.5	16.5	41.5

Note) Adjust the auto switch after confirming the operating condition in the actual setting.

Operating Range [mm]

Auto switch model	Bore size						
	16	20	25	32	40	50	63
D-M9NJ□	4.5	4.5	4.5	5	4.5	5	5
D-M9PJ□	4.5	4.5	4.5	5	4.5	5	5

* Since the operating range is provided as a guideline at room temperature, it cannot be guaranteed. It may change substantially depending on the ambient environment.

SMC Corporation

SMC CORPORATION
 Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN
 Phone: 03-5207-8249 FAX: 03-5298-5362
 SMC CORPORATION All Rights Reserved

European Marketing Centre (EMC)

Zuazobidea 14, 01015 Vitoria
 Tel: +34 945-184 100 Fax: +34 945-184 124
 URL <http://www.smc.eu>