

Non-Contact Safety Door Switch D40A-2

Supports a wide range of equipment requirements with safety and environmental resistance

- Wide range of equipment requirements in each region
- PLe/Safety Category 4 and cost optimization
- High flexibility due to unique design that does not use radio waves
- Highly protective structure against water jet spray
- No safety label means it's safe for equipment requiring foreign object contamination and hygiene measures



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Be sure to read the *Safety Precautions* on page 21.

Model Number Structure

Model Number Legend

Non-Contact Safety Door Switch

Switch

D40A - □ **2** □ □
Series (1) (2) (3) (4)

(1) Set/Individual

- None : Set of switch and actuator
- S : Switch only

(2) Type

- 2 : Advanced model

(3) Auxiliary Output

- C : PNP transistors output
- D : Photocoupler output

(4) Connection method/cable length

- 2 : Exposed lead wires, 2 m
- 5 : Exposed lead wires, 5 m
- 015-F : M12 connector model, 0.15 m

Note: For details on D40A-□1 series, basic models, refer to the *D40A/G9SX-NS Catalog* (Cat. No. C140).

Actuator

D40A - A 2
Series (1) (2)

(1) Product

- A: Actuator



(2) Type

- 2: Advanced model

D40A-2



Ordering Information

Switch and Actuator (set)


Appearance	Connection method	Auxiliary Output	Cable length	Model
	Cable with exposed lead wires	PNP transistors output	2 m	D40A-2C2
			5 m	D40A-2C5
		Photocoupler output	2 m	D40A-2D2
			5 m	D40A-2D5
	Cable with M12 connector (connector model)	PNP transistors output	0.15 m (with 5-pin connector)	D40A-2C015-F

Switch/Actuator (sold separately)

Switches

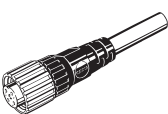
Appearance	Connection method	Auxiliary Output	Cable length	Model
	Cable with exposed lead wires	PNP transistors output	2 m	D40A-S2C2
			5 m	D40A-S2C5
		Photocoupler output	2 m	D40A-S2D2
			5 m	D40A-S2D5
	Cable with M12 connector (connector model)	PNP transistors output	0.15 m (with 5-pin connector)	D40A-S2C015-F

Actuator

Appearance	Model
	D40A-A2

Accessory (Sold separately)


Cable with connector

Appearance	Connection method	Cable length	Model
	Connecting cable with M12 connector (one-end)	2 m	XS2F-D521-DG0-A
		5 m	XS2F-D521-GG0-A
		10 m	XS2F-D521-JG0-A
		15 m	XS2F-D521-KG0-A
		20 m	XS2F-D521-LG0-A
	Connecting cable with M12 connectors (both ends)	2 m	XS2W-D521-DG1-A
		5 m	XS2W-D521-GG1-A
		10 m	XS2W-D521-JG1-A
		15 m	XS2W-D521-KG1-A
		20 m	XS2W-D521-LG1-A

Note: For details, refer to *XS2 Data Sheet*.

Related Product Safety Controllers

Non-Contact Door Switch Controllers G9SX-NS

Appearance	Safety outputs *1		Auxiliary outputs *3	Logical AND connection input	Logical AND connection output	Max. OFF delay time *4	Rated voltage	Terminal block type	Model
	Instantaneous	OFF-delayed *2							
	2 (Semi-conductors)	0	2 (Semi-conductors)	1	1	---	24 VDC	Screw terminals	G9SX-NS202-RT
		2 (Semi-conductors)						3.0 s	Spring-cage terminals
	Screw terminals		G9SX-NSA222-T03-RT						
	Spring-cage terminals	G9SX-NSA222-T03-RC							

Note: For details, refer to the *G9SX Series Catalog* (Cat.No. F120).

*1. P channel MOS FET transistor output


*2. The OFF-delayed output becomes an instantaneous output by setting the OFF-delay time to 0 s.

*3. PNP transistor output

*4. The OFF-delay time can be set in 16 steps as follows:

0/0.2/0.3/0.4/0.5/0.6/0.7/0.8/0.9/1.0/1.2/1.4/1.8/2.0/2.5/3.0 s

Safety Controller G9SP Series

Appearance	No. of I/O points				Unit version	Model
	Safety inputs	Test outputs	Safety outputs	Standard outputs		
	10	4	Semiconductor outputs: 4	4	Ver. 2.0	G9SP-N10S
	10	6	Semiconductor outputs: 16	--		G9SP-N10D
	20	6	Semiconductor outputs: 8	--		G9SP-N20S

Note: For details, refer to the *G9SP Series Catalog* (Cat. No. F090).