

Product Discontinuation Notices

March 1, 2010

Safety Door Switches

No. 2010054E

Discontinuation Notice of Compact Non-contact Door Switch D40B series

Product Discontinuation



Sensor

D40B-1[][] series

D40B-2[][] series

D40B-3[][] series

Controller

D40B-J1

D40B-J2

Recommended Replacement

Sensor

D40A-1C[] series

Controller

G9SX-NS202-[]

G9SX-NSA222-T03-[]

Discontinuation date : The end of March, 2011

Caution on recommended replacement

Because D40B series does not have any compatibility with D40A/G9SX series, please replace the sensor and the controller in sets.

Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
D40A-1C[] series	*	-	*	-	*	**	**
G9SX-NS[] series	-	*	-	*	*	**	**

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Sensor

Product Discontinuation (Product Code)	Recommended replacement: (Product Code)
D40B-1B3 (D40B0001M)	D40A-1C2 (D40A0001E) D40A-1C5 (D40A0002C)
D40B-1B10 (D40B0002H)	
D40B-1D3 (D40B0003F)	
D40B-1D10 (D40B0004D)	
D40B-2B3 (D40B0005B)	
D40B-2B10 (D40B0006M)	
D40B-2D3 (D40B0007R)	
D40B-2D10 (D40B0008G)	
D40B-3D5C (D40B0009E)	
D40B-3E5C (D40B0010R)	None

Controller

Product Discontinuation (Product Code)	Recommended replacement: (Product Code)
D40B-J1 (D40B0014A)	G9SX-NS202-RT (G9SX0016M) G9SX-NS202-RC (G9SX0017R) G9SX-NS222-T03-RT (G9SX0018G) G9SX-NS222-T03-RC (G9SX0019E)
D40B-J2 (D40B0015M)	

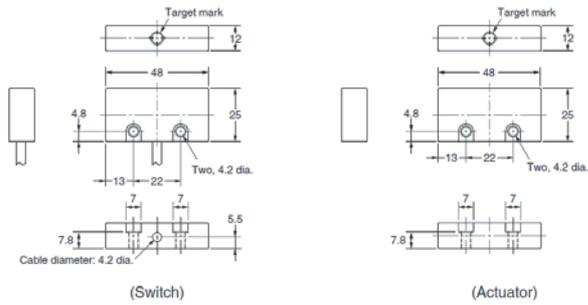
Body color

Product discontinuation Type D40B series	Recommendable replacement Type D40A/Type G9SX-NS[] series
D40B-1[] series: Black D40B-2[] series: Black D40B-3[] series: Silver D40B-J1: Red D40B-J2: Red	D40A-1C[] series: Black G9SX-NS202-[]: Gray G9SX-NSA222-T03-[]: Gray

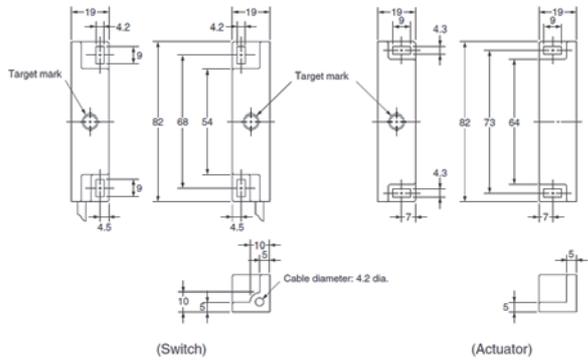
Dimensions

Product discontinuation Type D40B series

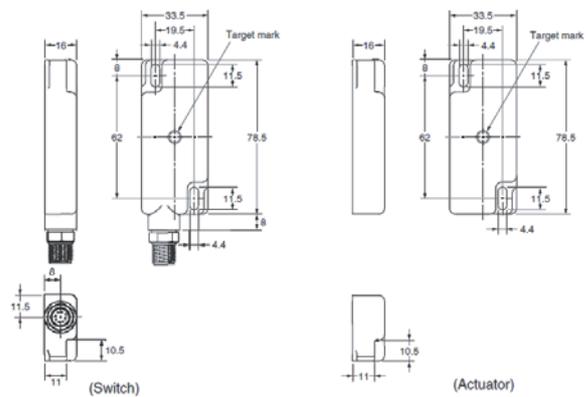
Type D40B-1 series



Type D40B-2 series

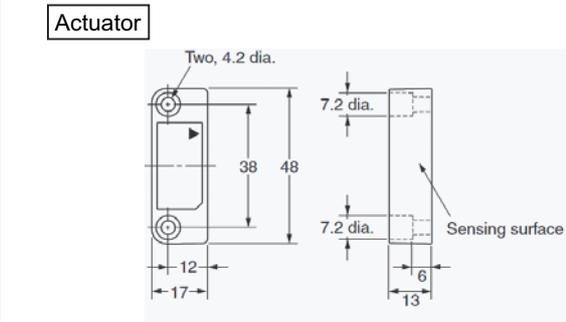
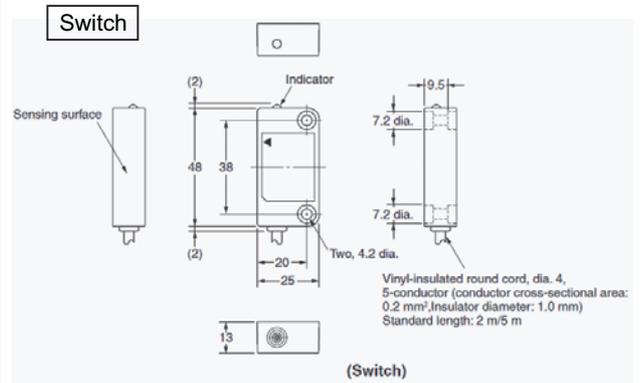


Type D40B-3 series



Recommendable replacement Type D40A/Type G9SX-NS series

Type D40A-1C series

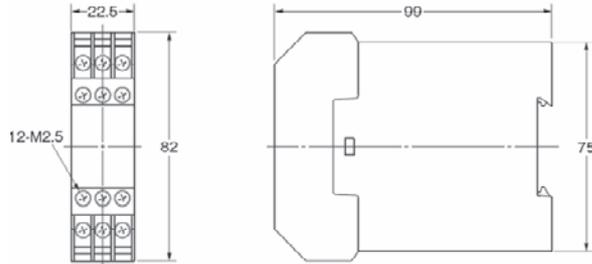


Dimensions

Product discontinuation Type D40B series

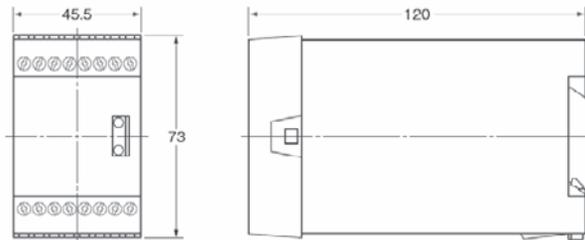
Type D40B-J1

22.5mm×82mm×99mm



Type D40B-J2

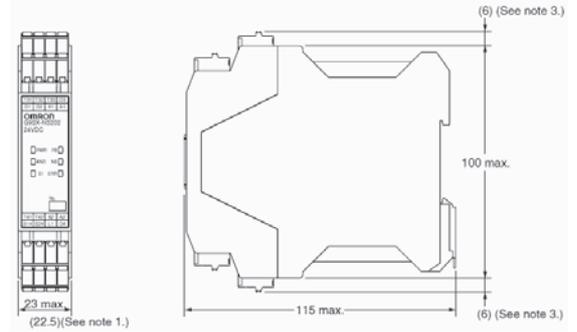
45.5mm×73mm×120mm



Recommendable replacement Type D40A/Type G9SX-NS[] series

Type G9SX-NS202-[]

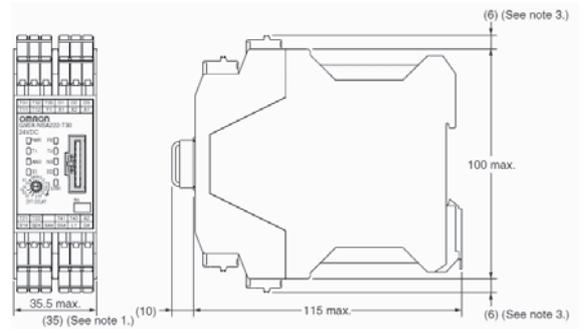
22.5mm×100+amm×115mm



- Note:**
1. Typical dimension
 2. Above outline drawing is for models with spring-cage terminals (-RC).
 3. For models with spring-cage terminals (-RC) only.

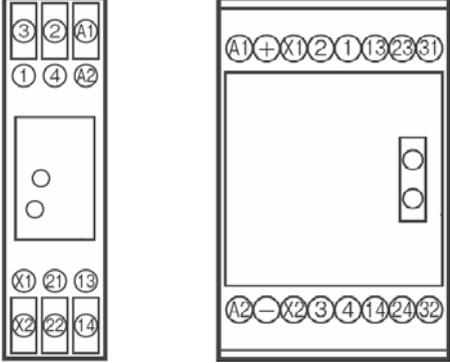
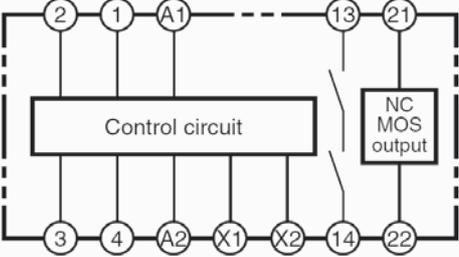
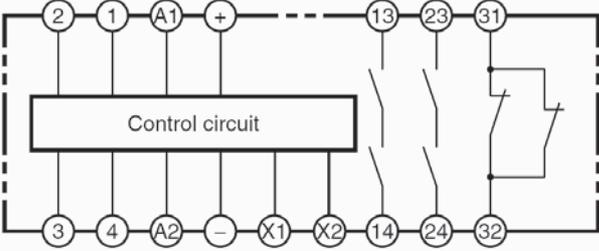
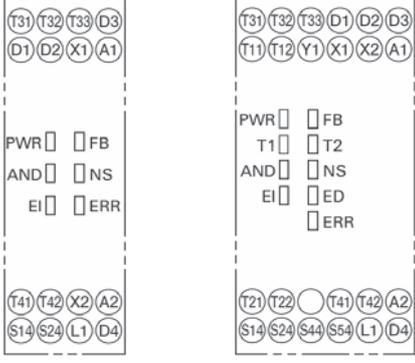
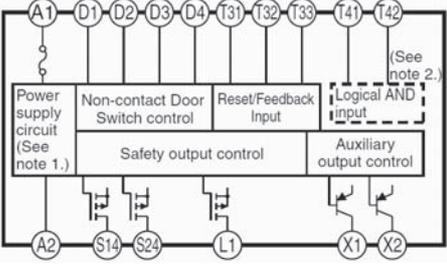
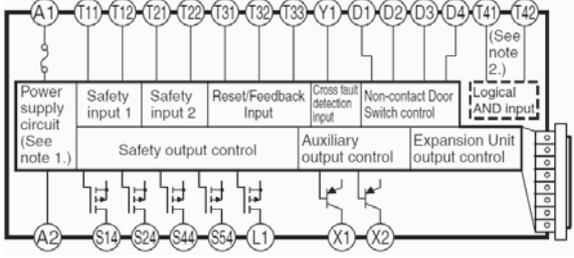
Type G9SX-NSA222-T03-[]

35.5mm×100+amm×115mm



- Note:**
1. Typical dimension
 2. Above outline drawing is for models with spring-cage terminals (-RC).
 3. For models with spring-cage terminals (-RC) only.

Wire Connection

Product discontinuation Type D40B series	Recommendable replacement Type D40A/Type G9SX-NS[] series
<p>Terminal arrangement</p>  <p>Internal Connection Type D40B-J1</p>  <p>Type D40B-J2</p> 	<p>Terminal arrangement</p>  <p>Type G9SX-NS202-[]</p>  <p>Type G9SX-NSA222-T03- []</p>  <p>* Please refer to the catalog for details of the wiring connection.</p>

Mounting dimensions

Product discontinuation Type D40B series	Recommendable replacement Type D40A/Type G9SX-NS[] series
Controller: DIN rail only.	Controller: DIN rail only. * Please refer to the Manual or "Dimensions" for Sensor.

Characteristics

Product discontinuation Type D40B series	Recommendable replacement Type D40A/Type G9SX-NS□ series
<p>Sensors</p> <ul style="list-style-type: none"> - Safety contact switching distance (OFF→ON) Type D40B-1□□□□ series: 5mm min. Type D40B-2□□□□ series: 5mm min. Type D40B-3□□□□ series: 8mm min. (Aux. 5mm min.) - Safety contact switching distance (OFF→ON) Type D40B-1□□□□ series: 15mm max. Type D40B-2□□□□ series: 18mm max. Type D40B-3□□□□ series: 21mm max. - Actuator approach speed: 17mm/s min. - Operating temperature: -10 to +55°C (Type D40B-3: -25 to +125°C) - Operating humidity: 35 to 85%RH - Degree of protection: IP67 - Material: ABS (Type D40B-3: Stainless steel) - Mounting method: M4 screws - Mounting screw tightening torque: 1Nm - Switch auxiliary output rating: 24VDC 10mA $\cos\phi=1$ <p>Controller</p> <p>Ratings (Power supply)</p> <ul style="list-style-type: none"> - Power supply voltage: Type D40B-J1: 24VAC 50/60Hz / 24VDC Type D40B-J2: 24VAC 50/60Hz / 24VDC or 110V/230VAC 50/60Hz - Allowable voltage range: Power supply voltage\pm15% - Power consumption Type D40B-J1: 2.0VA max. Type D40B-J2: 4.0VA max. <p>Ratings (Switch)</p> <ul style="list-style-type: none"> - Rated load: 250VAC 4A $\cos\phi=1$ 30VDC 2A $\cos\phi=1$ 	<ul style="list-style-type: none"> - Safety contact switching distance (OFF→ON) : 5mm min. - Safety contact switching distance (OFF→ON) : 15mm max. - Actuator approach speed: unregulated - Operating temperature: -10 to +55°C - Operating humidity: 25 to 85%RH - Degree of protection: IP67 - Material: PBT - Mounting method: M4 screws - Mounting screw tightening torque: 1Nm - Switch auxiliary output rating: 24VDC 10mA (PNP open-collector outputs) - Power supply voltage: 24VDC - Allowable voltage range: -15% to +10% of rated supply voltage - Power consumption Type G9SX-NS202: 3W max. Type G9SX-NSA222: 4W max. - Rated load: 0.8A DC max.

Characteristics

Product discontinuation Type D40B series	Recommendable replacement Type D40A/Type G9SX-NS[] series
<p>Characteristics</p> <ul style="list-style-type: none"> - Contact resistance: 100mΩ max. - Auxiliary output ON resistance: 36Ω (nominal value) - Response time: 25ms max. - Insulation resistance: 100MΩ min (at 500VDC) - Dielectric strength: 1,500VAC 1min. - Vibration resistance: 10 to 55 to 10Hz 1mm single amplitude - Shock resistance: 300m/s² - Mechanical Durability: 1,000,000 operations min. - Electrical Durability: 100,000 operations min. - Minimum rated current for safety contacts: 10VAC/DC 10mA - Operating temperature: -10 to +55°C - Operating humidity: 90%RH at +50% - Mounting method: 35mm DIN Track - Terminal screw tightening torque: 1Nm - Weight: Type D40B-J1: 147g Type D40B-J2: 200g 	<ul style="list-style-type: none"> - Contact resistance: unregulated - Auxiliary output ON resistance: unregulated - Response time: 20ms max. - Insulation resistance: 20MΩ min (at 100VDC) - Dielectric strength: 500VAC 1min. - Vibration resistance: 10 to 55 to 10Hz 0.375mm single amplitude - Shock resistance: Destruction: 300m/s² Malfunction: 100m/s² - Mechanical Durability: unregulated - Electrical Durability: unregulated - Minimum rated current for safety contacts: unregulated - Operating temperature: -10 to +55°C - Operating humidity: 25 to 85%RH - Mounting method: 35mm DIN Track - Terminal screw tightening torque: 0.5Nm - Weight: Type G9SX-NS202: Approx.125g Type G9SX-NSA222: Approx.200g

Operation methods

Product discontinuation Type D40B series	Recommendable replacement Type D40A/Type G9SX-NS[] series
Non-contact Door Switch	Non-contact Door Switch