

Guard Lock Safety-door Switch/D4SL-N-mounting Slide Key D4SL-N / D4SL-NSK10-LK□

Varied lineup of Guard Lock Safety-door Switches

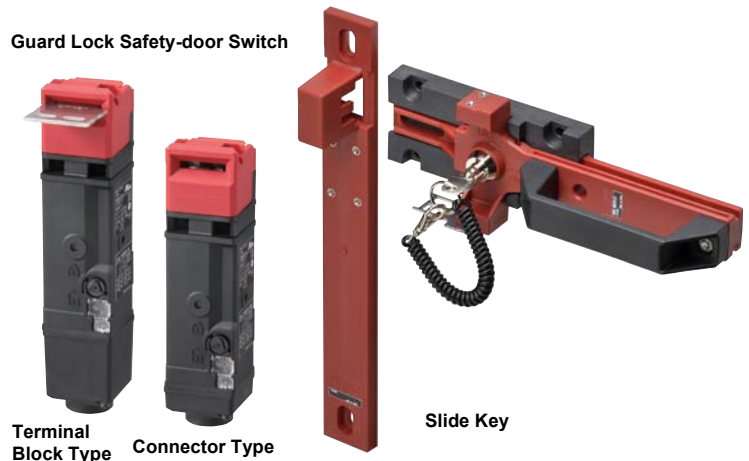


<Guard Lock Safety-door Switch D4SL-N>

- Wiring time is reduced with two types of wiring methods capable of one-touch attachment and removal.
- A wide variety of built-in switches can be used for various devices.
(4-, 5-, and 6-contact models are available)
- Key holding force of 1,300 N.
- It is possible to change the operation key insertion point without detaching the head.
- Drive solenoids directly from the Controller.

<Slide Key D4SL-NSK10-LK□>

- Lockout key to prevent workers from becoming trapped inside the hazardous area.
- The vertical D4SL-N Guard Lock Safety-door Switch can be easily mounted on 40 × 40 mm aluminum frames.
- The plastic material makes the Slide Key suitable for lightweight doors.



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 22.

Scan the 2D codes using the smartphone to see the D4SL-N promotional videos.

Reduction in time and effort



Safe access application



Model Number Structure

Model Number Legend

Switch

D4SL-N (1) (2) (3) (4) - (5) (6) (7)

(1) Conduit Outlet

Code	Conduit Outlet
2	G1/2
3	1/2-14NPT *1
4	M20

*1. The recommended models for equipment and machinery being exported to Europe are those with an M20 conduit outlet, and for North America, the recommended models are those with a 1/2-14NPT conduit outlet.
1/2-14NPT models (conduit outlet: M20) will come with an M20-to-1/2-14NPT conversion adapter.

(2) Built-in Switch (Total number of contacts/Door monitor/Lock monitor)

Code (Circuit number *2)	Total number of contacts	Door monitor	Lock monitor	Presence/absence of short circuit in door monitor/lock monitor
A	4-contact	2-contact (1NC/1NO)	2-contact (1NC/1NO)	Yes
B		2-contact (1NC/1NO)	2-contact (2NC)	
C		2-contact (2NC)	2-contact (1NC/1NO)	
D		2-contact (2NC)	2-contact (2NC)	
S	4-contact	2-contact (1NC/1NO)	2-contact (1NC/1NO)	None
T		2-contact (1NC/1NO)	2-contact (2NC)	
U		2-contact (2NC)	2-contact (1NC/1NO)	
V		2-contact (2NC)	2-contact (2NC)	
E	5-contact	3-contact (2NC/1NC)	2-contact (1NC/1NO)	Yes
F		3-contact (2NC/1NC)	2-contact (2NC)	
G		3-contact (3NC)	2-contact (1NC/1NO)	
H		3-contact (3NC)	2-contact (2NC)	
N	6-contact	3-contact (2NC/1NC)	3-contact (2NC/1NC)	None
P		3-contact (2NC/1NC)	3-contact (3NC)	
Q		3-contact (3NC)	3-contact (2NC/1NC)	
R		3-contact (3NC)	3-contact (3NC)	

*2. For detailed internal circuit information, please refer to *Model and Contact Configuration* on page 13.

(3) Head Material

Code	Head Material
F	Resin
D *3	Metal

*3. 4-contact type is not available.

(4) Door Lock and Release

Code	Door Lock	Release
A	Mechanical lock	Solenoid release (24 VDC)
G	Solenoid lock (24 VDC)	Mechanical release

(5) Indicator

Code	Indicator
- (Blank) *4	None
D *4	24 VDC (orange LED indicator)

*4. Code - (Blank): 5- and 6-contact types are not available.
Code D: 4-contact type is not available.

(6) Release Key Type

Code	Release Key Type
- (Blank)	Standard release key (metal)
4 *5	Special release key (resin) (Note: Release keys are provided.)

*5. 4-contact type is not available.

(7) Connection Method

Code	Connection Method
- (Blank)	Terminal block
N	Connector *6

*6. Connector cables are not included with the connector type and are to be purchased separately.

Operation Key

D4SL-NK (1) (2)

(1) Operation Key Type

Code	Operation Key Type
1	Horizontal mounting
2	Vertical mounting
3	Adjustable mounting (horizontal)
5	Adjustable mounting (horizontal/vertical)

(2) Key Type

Code	Key Type
– (Blank)	No cushion rubber
G	Cushion rubber
S	No cushion rubber, short type

Slide Key

D4SL-NSK10-LK (1) - (2)

(1) Inner Lever

Code	Inner Lever
– (Blank)	No inner lever
H	With inner lever

(2) Lockout key Type

Code	Lockout key Type
– (Blank)	01
02 to 30	02 to 30

Note: Lockout key can be created up to 30 types.

Ordering Information

List of Models

Total number of contacts	Lock monitor	Door monitor	Circuit (Door monitor and Lock monitor)	Door Lock	Head Material	Indicator	Connection Method	Release Key type	Conduit Outlet	Model
6-contact	3-contact (2NC/1NO)	3-contact (2NC/1NO)	Circuit number: N 	Mechanical lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2NFA-D
					Resin	Yes	Terminal block	Standard	M20	D4SL-N4NFA-D
					Resin	Yes	Connector	Standard	G1/2	D4SL-N2NFA-DN
					Resin	Yes	Terminal block	Special (resin)	G1/2	D4SL-N2NFA-D4
				Solenoid lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2NFG-D
					Resin	Yes	Terminal block	Standard	M20	D4SL-N4NFG-D
	3-contact (3NC)	3-contact (3NC)	Circuit number: R 	Mechanical lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2RFA-D
				Solenoid lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2RFG-D
5-contact	2-contact (2NC)	3-contact (3NC)	Circuit number: H 	Mechanical lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2HFA-D
				Solenoid lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2HFG-D
	2-contact (2NC)	3-contact (2NC+1NO)	Circuit number: F 	Mechanical lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2FFA-D
				Solenoid lock	Resin	Yes	Terminal block	Standard	G1/2	D4SL-N2FFG-D

Note: 1. For other models, refer to the *Model Number Structure*.

2. For detailed internal circuit information, please refer to *Model and Contact Configuration* on page 13.

Operation Keys

Type		Model
Horizontal mounting		D4SL-NK1
Horizontal mounting (Short)		D4SL-NK1S
Horizontal mounting (Cushion rubber)		D4SL-NK1G
Vertical mounting		D4SL-NK2
Vertical mounting (Cushion rubber)		D4SL-NK2G
Adjustable (Horizontal)		D4SL-NK3
Adjustable (Horizontal/Vertical)		D4SL-NK5

Connector Cables

Cable length	Model
1 m	D4SL-CN1
3 m	D4SL-CN3
5 m	D4SL-CN5
10 m	D4SL-CN10

D4SL-N / D4SL-NSK10-LK□

Slide Key

Type	Specifications	Contents	Model
	Weight: Approx. 0.6 kg Mechanical durability: 20,000 operations min.	Slide Key: 1 (not yet mounted) Inner Lever: None D4SL-N mounting plate: 1 Door Switch special mounting screws: 3 D4SL-NK1 (operation key): 1 D4SL-NK1 special mounting screws: 2 Lockout keys: 2 Lockout key strap: 1 Caution labels (stickers): 2 sheets (English and Japanese)	D4SL-NSK10-LK *1
			D4SL-NSK10-LK-□ *2
	Weight: Approx. 0.1 kg	Inner Lever: 1	D4SL-SK10H *3
	Weight: Approx. 0.7 kg Mechanical durability: 20,000 operations min.	Slide Key: 1 (not yet mounted) Inner Lever: 1 D4SL-N mounting plate: 1 Door Switch special mounting screws: 3 D4SL-NK1 (operation key): 1 D4SL-NK1 special mounting screws: 2 Lockout keys: 2 Lockout key strap: 1 Caution labels (stickers): 2 sheets (English and Japanese)	D4SL-NSK10-LKH *1
			D4SL-NSK10-LKH-□ *2

Note: 1. The Door Switch is not included. Select the Door Switch depending on the necessary number of contacts and the conduit outlet.
The contents are provided as a total set, individual contents cannot be ordered separately.
2. Perform risk assessment for the equipment in question, configure relay units and other safety circuits, and use properly.

*1. The number for the lockout key is 01.
*2. Replace the box with 02 to 30 (lockout key number). Ask your OMRON representative for delivery times.
*3. The inner lever for D4SL-NSK10 that can not be used for other products and applications.

Applicable Door Switches

D4SL-NSK10-LK



D4SL-NSK10-LKH

