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.

⚠ **Be sure to read the "*Safety Precautions*" on page 22.**

Guard Lock Safety-door Switch

Terminal Block Type   **Connector Type**

Slide Key

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

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

Reduction in time and effort	Safe access application

OMRON

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D4SL-N / D4SL-NSK10-LK□

Model Number Structure

Model Number Legend

Switch (Standard type)

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

(1) Conduit Outlet

Contact Model		Conduit Outlet
4-contact Model 5-contact Model 6-contact Model	Common	2: G1/2 3: 1/2-14NPT *1 4: M20

(2) Built-in Switch

Contact Model	Built-in Switch
4-contact Model	Door monitor and Lock monitor are connected in series internally. 　A: 1NC/1NO + 1NC/1NO 　B: 1NC/1NO + 2NC 　C: 2NC + 1NC/1NO 　D: 2NC + 2NC Door monitor and Lock monitor are NOT connected in series internally. 　S: 1NC/1NO + 1NC/1NO 　T: 1NC/1NO + 2NC 　U: 2NC + 1NC/1NO 　V: 2NC + 2NC
5-contact Model	E: 2NC/1NO + 1NC/1NO F: 2NC/1NO + 2NC G: 3NC + 1NC/1NO H: 3NC + 2NC
6-contact Model	N: 2NC/1NO + 2NC/1NO P: 2NC/1NO + 3NC Q: 3NC + 2NC/1NO R: 3NC + 3NC

(3) Head Material

Contact Model		Head Material
4-contact Model		F: Resin
5-contact Model 6-contact Model	Common	F: Resin D: Metal

(4) Door Lock and Release

Contact Model		Door Lock and Release
4-contact Model 5-contact Model 6-contact Model	Common	A: Mechanical lock/24VDC solenoid release G: 24VDC solenoid lock/mechanical release

(5) Indicator

Contact Model		Indicator
4-contact Model		–: None
5-contact Model 6-contact Model	Common	D: 24VDC (orange LED indicator)

(6) Release Key Type

Contact Model		Release Key Type
4-contact Model		–: Standard release key (metal)
5-contact Model 6-contact Model	Common	–: Standard release key (metal) 4: Special release key (resin) 　(Note:Release keys are provided.)

(7) Connection Method

Contact Model		Connection Method
4-contact Model 5-contact Model 6-contact Model	Common	–: Terminal block N: Connector *2

*1. 1/2-14NPT models (conduit outlet: M20) will come with an M20-to-1/2-14NPT conversion adapter.
*2. 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
1: Horizontal mounting
2: Vertical mounting
3: Adjustable mounting (horizontal)
5: Adjustable mounting (horizontal/vertical)

(2) Key Type
–: No cushion rubber
G: Cushion rubber
S: No cushion rubber, short type

Slide Key

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

(1) Inner Lever
Blank:　No inner lever
H:　　With inner lever

(2) Lockout key Type
Lockout key can be created up to 30 types.
Specify keys in order starting from 01.
Blank:　　01
02 to 30:　02 to 30

Ordering Information

List of Models

Release key type	Wiring method	Solenoid voltage/ Indicator	Lock and release type	Contact configuration (door open/closed detection switch and lock monitor switch contacts)	Conduit outlet (See Note.)	Model
Standard (metal)	Connector	24VDC (Orange)	Mechanical lock Solenoid release	6-contact Model Insert the built-in switch (N, P, Q or R) into the blank □.	G1/2	**D4SL-N2□FA-DN**
					1/2-14NPT	**D4SL-N3□FA-DN**
					M20	**D4SL-N4□FA-DN**
				5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	**D4SL-N2□FA-DN**
					1/2-14NPT	**D4SL-N3□FA-DN**
					M20	**D4SL-N4□FA-DN**
		24VDC (without indicator)		4-contact Model Insert the built-in switch (A, B, C, D, S, T, U or V) into the blank □.	G1/2	**D4SL-N2□FA-N**
					1/2-14NPT	**D4SL-N3□FA-N**
					M20	**D4SL-N4□FA-N**
	Terminal block	24VDC (Orange)		6-contact Model Insert the built-in switch (N, P, Q or R) into the blank □.	G1/2	**D4SL-N2□FA-D**
					1/2-14NPT	**D4SL-N3□FA-D**
					M20	**D4SL-N4□FA-D**
				5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	**D4SL-N2□FA-D**
					1/2-14NPT	**D4SL-N3□FA-D**
					M20	**D4SL-N4□FA-D**
		24VDC (without indicator)		4-contact Model Insert the built-in switch (A, B, C, D, S, T, U or V) into the blank □.	G1/2	**D4SL-N2□FA**
					1/2-14NPT	**D4SL-N3□FA**
					M20	**D4SL-N4□FA**
	Connector	24VDC (Orange)	Solenoid lock Mechanical release	6-contact Model Insert the built-in switch (N, P, Q or R) into the blank □.	G1/2	**D4SL-N2□FG-DN**
					1/2-14NPT	**D4SL-N3□FG-DN**
					M20	**D4SL-N4□FG-DN**
				5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	**D4SL-N2□FG-DN**
					1/2-14NPT	**D4SL-N3□FG-DN**
					M20	**D4SL-N4□FG-DN**
		24VDC (without indicator)		4-contact Model Insert the built-in switch (A, B, C, D, S, T, U or V) into the blank □.	G1/2	**D4SL-N2□FG-N**
					1/2-14NPT	**D4SL-N3□FG-N**
					M20	**D4SL-N4□FG-N**
	Terminal block	24VDC (Orange)		6-contact Model Insert the built-in switch (N, P, Q or R) into the blank □.	G1/2	**D4SL-N2□FG-D**
					1/2-14NPT	**D4SL-N3□FG-D**
					M20	**D4SL-N4□FG-D**
				5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	**D4SL-N2□FG-D**
					1/2-14NPT	**D4SL-N3□FG-D**
					M20	**D4SL-N4□FG-D**
		24VDC (without indicator)		4-contact Model Insert the built-in switch (A, B, C, D, S, T, U or V) into the blank □.	G1/2	**D4SL-N2□FG**
					1/2-14NPT	**D4SL-N3□FG**
					M20	**D4SL-N4□FG**

Note: 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.