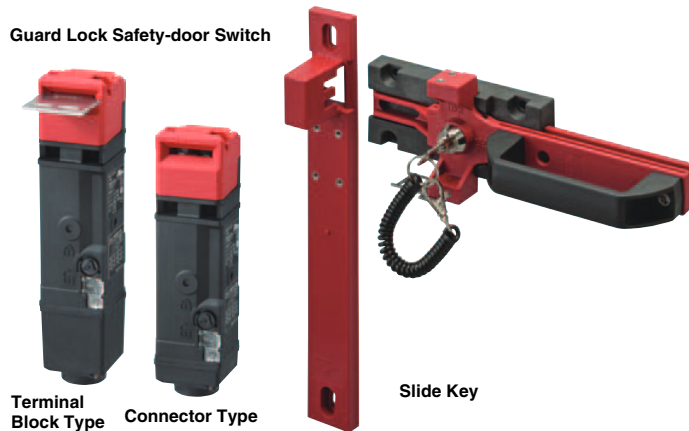


World's smallest Class 6-contact Guard Lock Safety-door Switch




<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 key insertion point without detaching the head.
- Drive solenoids directly from the Controller.
- Conforms to ISO 14119.



<Slide Key D4SL-NSK10-LK□>

- Lockout Key to prevent workers from becoming trapped inside the hazardous area.
- The vertical D4SL 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.

Model Number Structure

Model Number Legend

Switch (Standard type)

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

(1) Conduit Size

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

(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	Common F: Resin D: Metal
6-contact Model	

*1. M20, includes 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

(4) Door Lock and Release

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

(5) Indicator

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

(6) Release Key Type


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

(7) Connection Method

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


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 size (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
		24VDC (without indicator)		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
	Terminal block	24VDC (Orange)		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
		24VDC (without indicator)		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
	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
		24VDC (without indicator)		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
	Terminal block	24VDC (Orange)		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
		24VDC (without indicator)		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
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-D	
				1/2-14NPT	D4SL-N3□FG-D	
				M20	D4SL-N4□FG-D	
	24VDC (without indicator)		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	
Terminal block	24VDC (Orange)		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	
	24VDC (without indicator)		6-contact Model Insert the built-in switch (N, P, Q or R) 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 sizes, and for North America, the recommended models are those with a 1/2-14NPT conduit sizes.

D4SL-N / D4SL-NSK10-LK□

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 size (See Note.)	Model
Special (resin) 	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-D4N
					1/2-14NPT	D4SL-N3□FA-D4N
					M20	D4SL-N4□FA-D4N
				5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	D4SL-N2□FA-D4N
					1/2-14NPT	D4SL-N3□FA-D4N
					M20	D4SL-N4□FA-D4N
	Terminal block		6-contact Model Insert the built-in switch (N, P, Q or R) into the blank □.	G1/2	D4SL-N2□FA-D4	
				1/2-14NPT	D4SL-N3□FA-D4	
				M20	D4SL-N4□FA-D4	
			5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	D4SL-N2□FA-D4	
				1/2-14NPT	D4SL-N3□FA-D4	
				M20	D4SL-N4□FA-D4	
Connector	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-D4N		
			1/2-14NPT	D4SL-N3□FG-D4N		
			M20	D4SL-N4□FG-D4N		
		5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	D4SL-N2□FG-D4N		
			1/2-14NPT	D4SL-N3□FG-D4N		
			M20	D4SL-N4□FG-D4N		
	Terminal block	6-contact Model Insert the built-in switch (N, P, Q or R) into the blank □.	G1/2	D4SL-N2□FG-D4		
			1/2-14NPT	D4SL-N3□FG-D4		
			M20	D4SL-N4□FG-D4		
		5-contact Model Insert the built-in switch (E, F, G or H) into the blank □.	G1/2	D4SL-N2□FG-D4		
			1/2-14NPT	D4SL-N3□FG-D4		
			M20	D4SL-N4□FG-D4		

Note: The recommended models for equipment and machinery being exported to Europe are those with an M20 conduit sizes, and for North America, the recommended models are those with a 1/2-14NPT conduit sizes.

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 <i>NEW</i>

Connector Cables

Cable length	Model
1 m	D4SL-CN1
3 m	D4SL-CN3
5 m	D4SL-CN5
10 m	D4SL-CN10 <i>NEW</i>

D4SL-N / D4SL-NSK10-LK□

Slide Key

Type	Specifications	Contents	Model	Applicable Door Switch
	Weight: Approx. 0.6 kg Mechanical durability: 20,000 operations min.	Slide Key: 1 (not yet mounted) 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	D4SL-N
	Weight: Approx. 0.1 kg	Inner Lever: 1	D4SL-SK10H *	—
	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	D4SL-N

Note: 1. The Door Switch is not included. Select the Door Switch depending on the necessary number of contacts and the conduit size.

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.

* 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

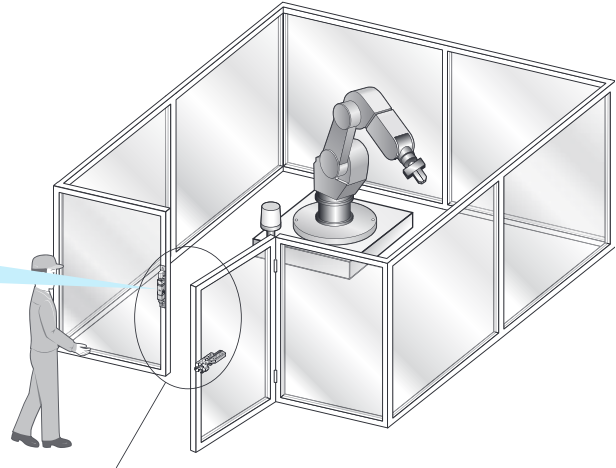


Features

The lockout key prevents workers from becoming trapped without using a padlock.

Note: Using LEDs of D4SL-N enables confirming whether the door is open or closed and locked or unlocked.

Close door
Locked (power not supplied to solenoid) The slide handle is closed.



The handle-shaped fixture makes it easy to use the Door Switch.

Close door
Unlocked (power supplied to solenoid) The slide handle is closed.

Attach the supplied caution labels for display.

Lockout Key

Do not turn the key as in the figure above if the slide handle is closed.

Left door
Door Opening to the Left.

Open door
The slide handle is open.

When the slide handle is open, the lockout key can be pulled regardless of whether power is being supplied to the solenoid or not.

Open door
The slide handle is open.

The slide handle is secured at the position shown in the figure. A worker holding the lockout key will not be trapped locked inside the hazardous area by another person.

Open door
The slide handle is open.

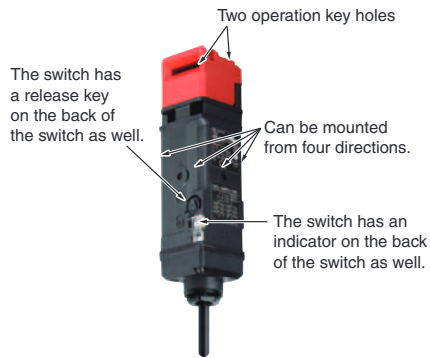
If the lockout key is not mounted, the slide handle will not move and the door will not close.

D4SL-N / D4SL-NSK10-LK□

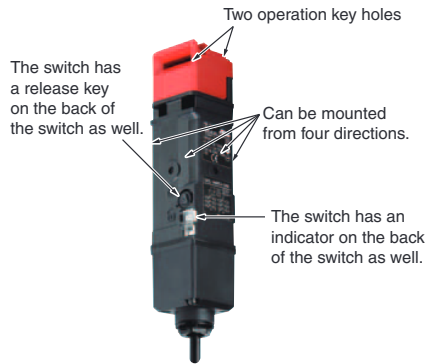
Structure and Nomenclature

Structure

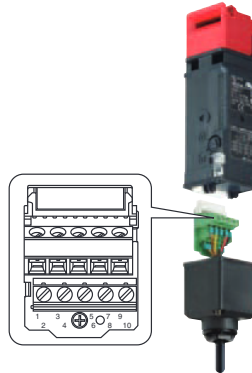
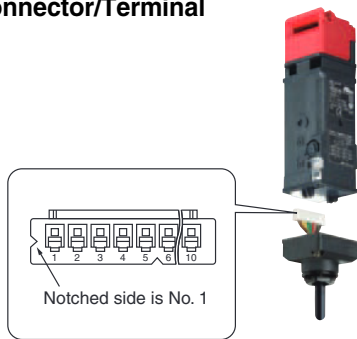
D4SL-N□□□□-D□N Connector Type



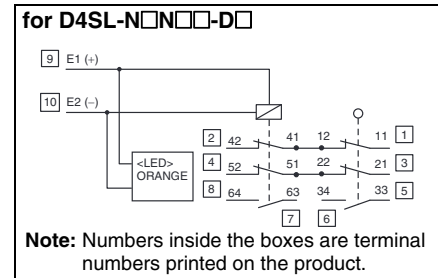
D4SL-□□□□-D□ Terminal Block Type



Connector/Terminal

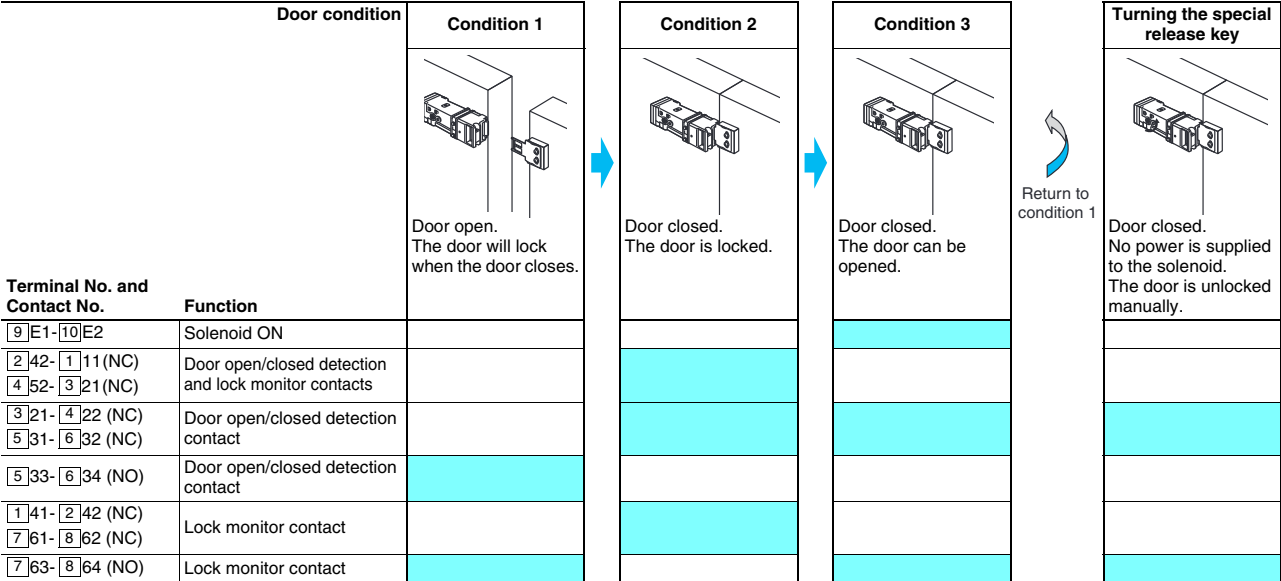


Terminal Arrangement

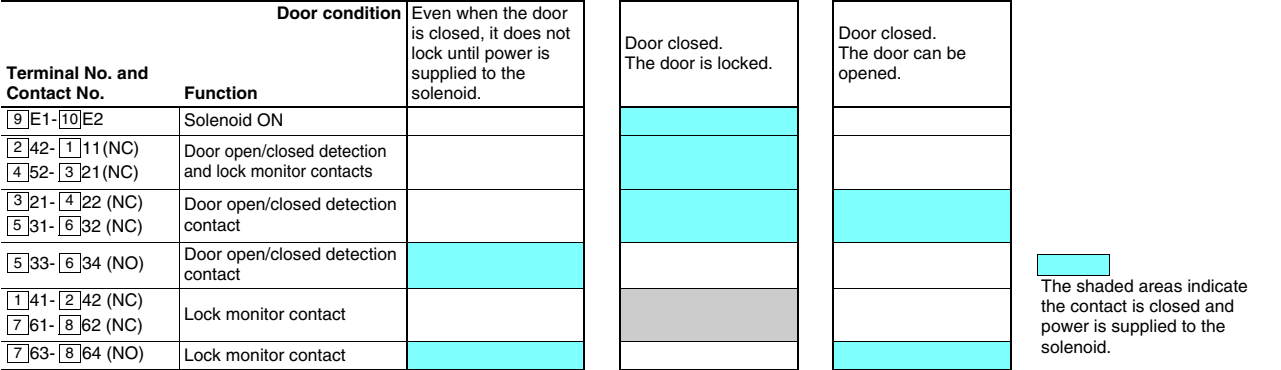


Operating Cycle Examples for Standard Models

D4SL-N□□□A-□ (Mechanical Lock Models)



D4SL-N□□□G-□ (Solenoid Lock Models)



Door open/closed detection and lock monitor contacts: Can be used in safety circuits because of the direct opening mechanisms.

Door open/closed detection contact: Can be used to confirm whether the key is inserted and to monitor the open/closed status of a door.

Lock monitor contact: Can be used to confirm whether power is supplied to the solenoid and to monitor whether or not a door can be opened or closed.

Note: 1. The door open/closed detection and lock monitor contact configuration depends on the model.
 2. If a current is detected in the solenoid lock model (built-in switches; N, P, Q, R), before the door is closed, the door will remain unlocked. Be sure to supply power to the solenoid after the door is closed.

Specifications

Standards and EC Directives

Conforms to the following EC Directives:

- Machinery Directive
- Low Voltage Directive
- EMC Directive
- EN ISO 14119
- EN60204-1
- GS-ET-19

Certified Standards

Certification body	Standard	File No.
TÜV SÜD	EN60947-5-1 (certified direct opening)	Consult your OMRON representative for details.
UL *1	UL508, CSA C22.2 No.14	E76675
CQC (CCC)	GB14048.5	2012010305582059
KOSHA *2	EN60947-5-1	Consult your OMRON representative for details.

*1. Certification has been obtained for UL CSA C22.2 No. 14.

*2. Only certain models have been certified.

Certified Standard Ratings

TÜV (EN60947-5-1) CCC (GB14048.5)

Utilization category	AC-15	DC-13
Rated operating current (Ie)	1.5 A *1 1 A *2	0.22 A
Rated operating voltage (Ue)	120 V	125 V

Note: Use a 4 A fuse that conforms to IEC60127 as a short-circuit protection device. This fuse is not included with the switch.

*1. 11-42, 21-52, 21-22

*2. Other terminals

UL/CSA (UL508, CSA C22.2 No.14)

C150

Rated voltage	Carry current	Current (A)		Volt-amperes (VA)	
		Make	Break	Make	Break
120 VAC	2.5 A	15	1.5	1,800	180

R150

Rated voltage	Carry current	Current (A)		Volt-amperes (VA)	
		Make	Break	Make	Break
125 VDC	1.0 A	0.22	0.22	28	28

Solenoid Coil Characteristics

Item	24 VDC
Rated operating voltage (100% ED)	24 VDC ^{+10%} _{-15%}
Current consumption *	Power ON: 6-contact type Approx. 6.4 W at 0.26 A 4-contact/5-contact type Approx. 4.8 W at 0.2 A Constant: Approx. 2.6 W (average) at 0.2 A (max.)
Insulation	Class E (to 120°C)

* A starting current is applied to the solenoid for Approx. 10 seconds.
After this, the internal circuit switches to a constant current.

Indicator

Item	LED type
Rated voltage	24 VDC
Current consumption	Approx. 10 mA
Color (LED)	Orange

Characteristics

Degree of protection *1		IP67 (EN60947-5-1)
Durability *2	Mechanical	1,000,000 operations min.
	Electrical	150,000 operations min. (1 A resistance at 125 VAC) *3
Operating speed		0.05 to 1 m/s
Operating frequency		4- and 5-contact Model: 30 operations minute max. 6-contact Model: 5 operations minute max.
Direct opening force *4		60 N min. (EN60947-5-1)
Direct opening travel *4		15 mm min. (EN60947-5-1)
Holding force *5		1,300 N min.
Contact resistance		200 mΩ max.
Minimum applicable load *6		1 mA resistive load at 5 VDC (N-level reference value)
Rated insulation voltage (Ui)		150 V (EN60947-5-1)
Rated frequency		50/60 Hz
Protection against electric shock		Class II (double insulation)
Pollution degree (operating environment)		3 (EN60947-5-1)
Impulse withstand voltage (EN60947-5-1)	Between terminals of same polarity	1.5 kV
	Between terminals of different polarity	1.5 kV
	Between other terminals and non-current carrying metallic parts	2.5 kV
Insulation resistance		100 Ω min. (at 500 VDC)
Vibration resistance	Malfunction	10 to 55 Hz, 0.35 mm single amplitude
Shock resistance	Malfunction	80 m/s ² min.
	Destruction	1,000 m/s ² min.
Conditional short-circuit current		100 A (EN60947-5-1)
Conventional free air thermal current (Ith)		2.5A (11-42, 21-52, 21-22) 1A (Others)
Ambient operating temperature		-10 to 55°C (with no icing)
Ambient operations humidity		95% max.
Weight	Head: Resin Approx. 290 g (Connector model) Approx. 330 g (Terminal block model) Head: Metal Approx. 370 g (Connector model) Approx. 410 g (Terminal block model)	

Note: 1. The above values are initial values.

2. The Switch contacts can be used with either standard loads or microloads.

Once the contacts have been used to switch a load, however, they cannot be used to switch smaller loads.

The contact surfaces will become rough once they have been used and contact reliability for smaller loads may be reduced.

*1. The degree of protection is tested using the method specified by the standard (EN60947-5-1).

Confirm that sealing properties are sufficient for the operating conditions and environment beforehand.

Although the switch box is protected from dust, oil or water penetration, do not use the D4SL in places where cutting chips, oil, water or chemicals may enter through the key hole on the head, otherwise Switch damage or malfunctioning may occur.

*2. The durability is for an ambient temperature of 5 to 35°C and an ambient humidity of 40% to 70%. For more details, consult your OMRON representative.

*3. Do not pass the 1 A, 125 VAC load through more than 3 circuits.

*4. These figures are minimum requirements for safe operation.

*5. This figure is based on the GS-ET-19 evaluation method.

*6. This value will vary with the switching frequency, environment, and reliability level.

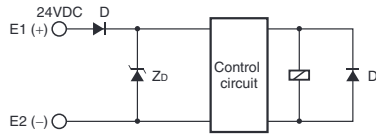
Confirm that correct operation is possible with the actual load beforehand.

D4SL-N / D4SL-NSK10-LK

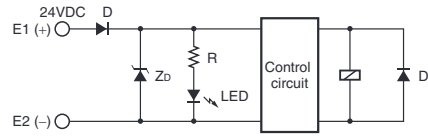
Connection

Internal Circuit Diagram

Without indicator



With indicator

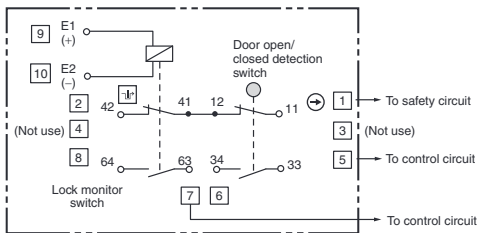


Circuit Connection Example

- Direct opening contacts used as safety-circuit input are indicated with the mark.
- Do not switch circuits for three or more standard loads at the same time. Doing so may adversely affect insulation performance.
- DC solenoids have polarity. (E1: Positive, E2: Negative)
Confirm terminal polarity before wiring.
- If a lock is required for safety, design the system so that the closing of the NC contacts on both the door open/closed detection switch and the lock monitor switch is detected.

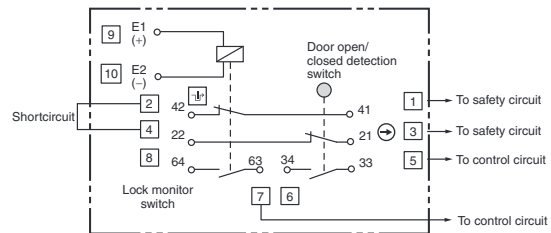
Connection Example for D4SL-N AF

Contacts 12 and 41 are internally connected.



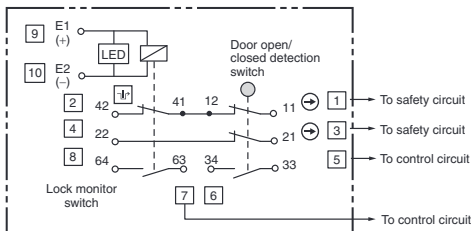
Connection Example for D4SL-N SF

There is no internal connection, so connect contacts 22 and 42 or 21 and 42 externally.



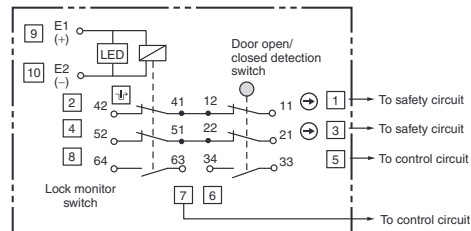
Connection Example for D4SL-N EF

Contacts 12 and 41 are internally connected.



Connection Example for D4SL-N NF

Contacts 12 and 41 and contacts 22 and 51 are internally connected.



Contact Form

Indicates conditions where the Key is inserted and the lock is applied.

Model	Contact (door open/closed detection and lock monitor)	Contact Form		Operating pattern	Remarks
		Lock monitor	Door open/closed detection		
D4SL-N□A□□-□	1NC/1NO+1NC/1NO				Only NC contact 11-12 has a certified direct opening mechanism. ⊖ The terminals 42-11, 34-33, and 64-63 can be used as unlike poles.
D4SL-N□B□□-□	1NC/1NO+2NC				Only NC contact 11-12 has a certified direct opening mechanism. ⊖ The terminals 42-11, 34-33, and 62-61 can be used as unlike poles.
D4SL-N□C□□-□	2NC+1NC/1NO				Only NC contact 11-12 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-11, 32-31, and 64-63 can be used as unlike poles.
D4SL-N□D□□-□	2NC+2NC				Only NC contact 11-12 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-11, 32-31, and 62-61 can be used as unlike poles.
D4SL-N□S□□-□	1NC/1NO+1NC/1NO				Only NC contact 21-22 has a certified direct opening mechanism. ⊖ The terminals 42-41, 22-21, 34-33, and 64-63 can be used as unlike poles.
D4SL-N□T□□-□	1NC/1NO+2NC				Only NC contact 21-22 has a certified direct opening mechanism. ⊖ The terminals 42-41, 22-21, 34-33, and 62-61 can be used as unlike poles.
D4SL-N□U□□-□	2NC+1NC/1NO				Only NC contact 21-22 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-41, 22-21, 32-31, and 64-63 can be used as unlike poles.
D4SL-N□V□□-□	2NC+2NC				Only NC contact 21-22 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-41, 22-21, 32-31, and 62-61 can be used as unlike poles.

D4SL-N / D4SL-NSK10-LK

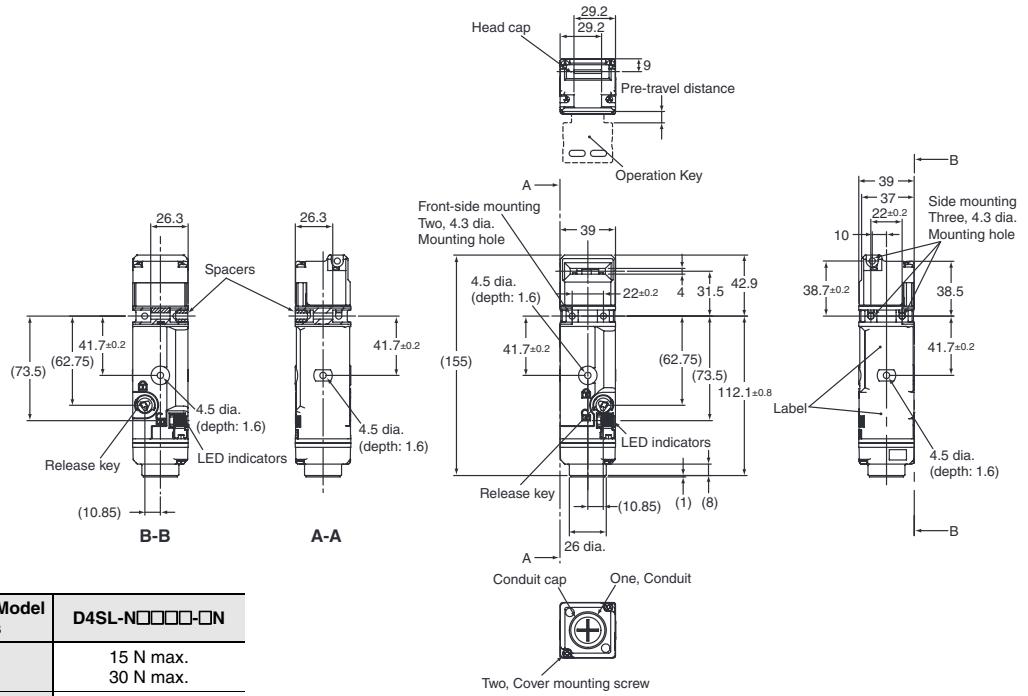
Model	Contact (door open/ closed detection and lock monitor)	Contact Form		Operating pattern	Remarks
		Lock monitor	Door open/ closed detection		
D4SL-N□E□□-□	2NC/1NO+ 1NC/1NO				Only NC contact 11-12 and 21-22 has a certified direct opening mechanism. ⊖ The terminals 42-11, 22-21, 34-33, and 64-63 can be used as unlike poles.
D4SL-N□F□□-□	2NC/1NO+2NC				Only NC contact 11-12 and 21-22 has a certified direct opening mechanism. ⊖ The terminals 42-11, 22-21, 34-33, and 62-61 can be used as unlike poles.
D4SL-N□G□□-□	3NC+1NC/1NO				Only NC contact 11-12 ,21-22 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-11, 22-21, 32-31, and 64-63 can be used as unlike poles.
D4SL-N□H□□-□	3NC+2NC				Only NC contact 11-12 ,21-22 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-11, 22-21, 32-31, and 62-61 can be used as unlike poles.
D4SL-N□N□□-□	2NC/1NO+ 2NC/1NO				Only NC contact 11-12 and 21-22 has a certified direct opening mechanism. ⊖ The terminals 42-11, 52-21, 34-33, and 64-63 can be used as unlike poles.
D4SL-N□P□□-□	2NC/1NO+3NC				Only NC contact 11-12 and 21-22 has a certified direct opening mechanism. ⊖ The terminals 42-11, 52-21, 34-33, and 62-61 can be used as unlike poles.
D4SL-N□Q□□-□	3NC+2NC/1NO				Only NC contact 11-12 ,21-22 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-11, 52-21, 32-31, and 64-63 can be used as unlike poles.
D4SL-N□R□□-□	3NC+3NC				Only NC contact 11-12 ,21-22 and 31-32 has a certified direct opening mechanism. ⊖ The terminals 42-11, 52-21, 32-31, and 62-61 can be used as unlike poles.

Dimensions and Operating Characteristics

(Unit:mm)

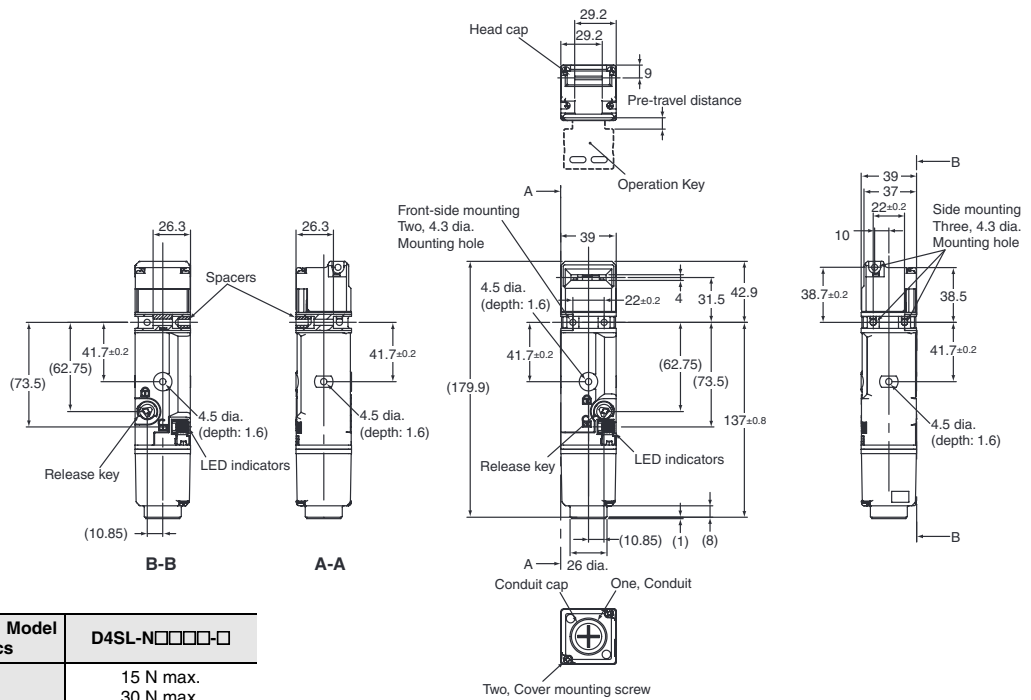
Switches

D4SL-N□□□□-□N (Connector Type)



Model	D4SL-N□□□□-□N
Operating characteristics	
Key insertion force	15 N max.
Key extraction force	30 N max.
Pre-travel distance	15 mm max.
Movement before being locked	3 mm min.

D4SL-N□□□□-□ (Terminal Block Type)



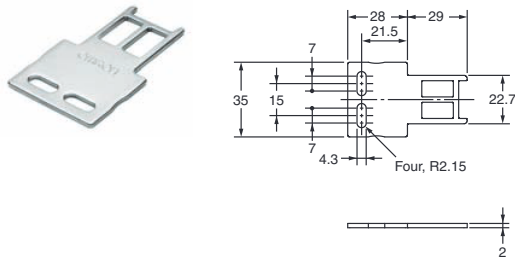
Model	D4SL-N□□□□-□
Operating characteristics	
Key insertion force	15 N max.
Key extraction force	30 N max.
Pre-travel distance	15 mm max.
Movement before being locked	3 mm min.

Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

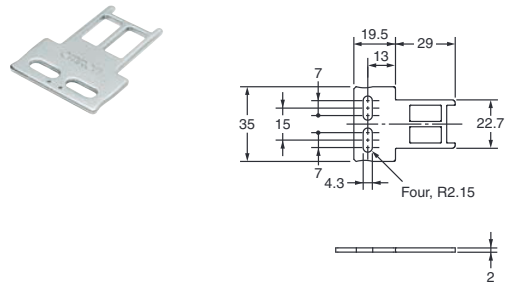
D4SL-N / D4SL-NSK10-LK□

Operation key

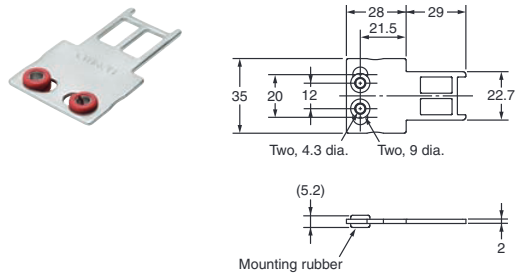
D4SL-NK1



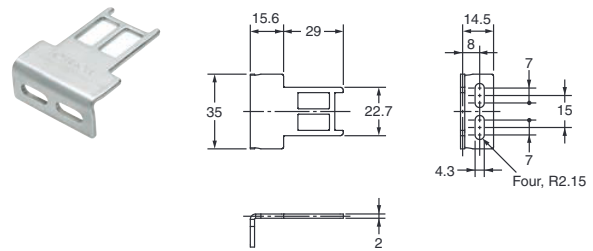
D4SL-NK1S



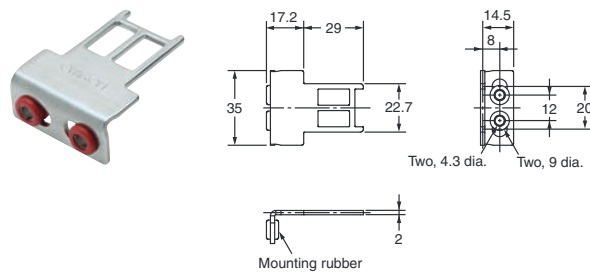
D4SL-NK1G



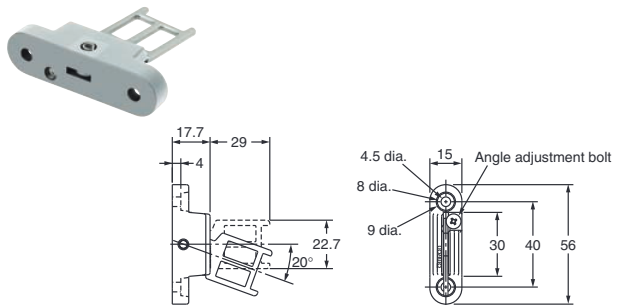
D4SL-NK2



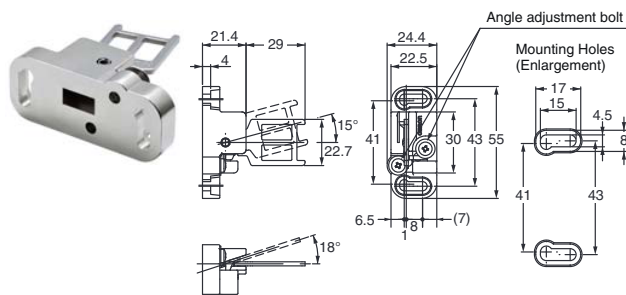
D4SL-NK2G



D4SL-NK3



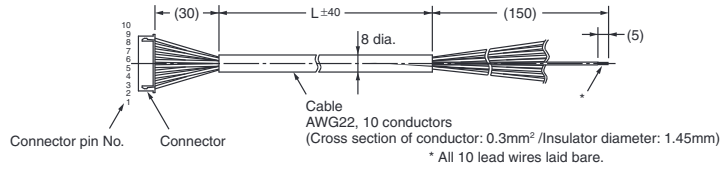
D4SL-NK5



Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Connector Cables

D4SL-CN

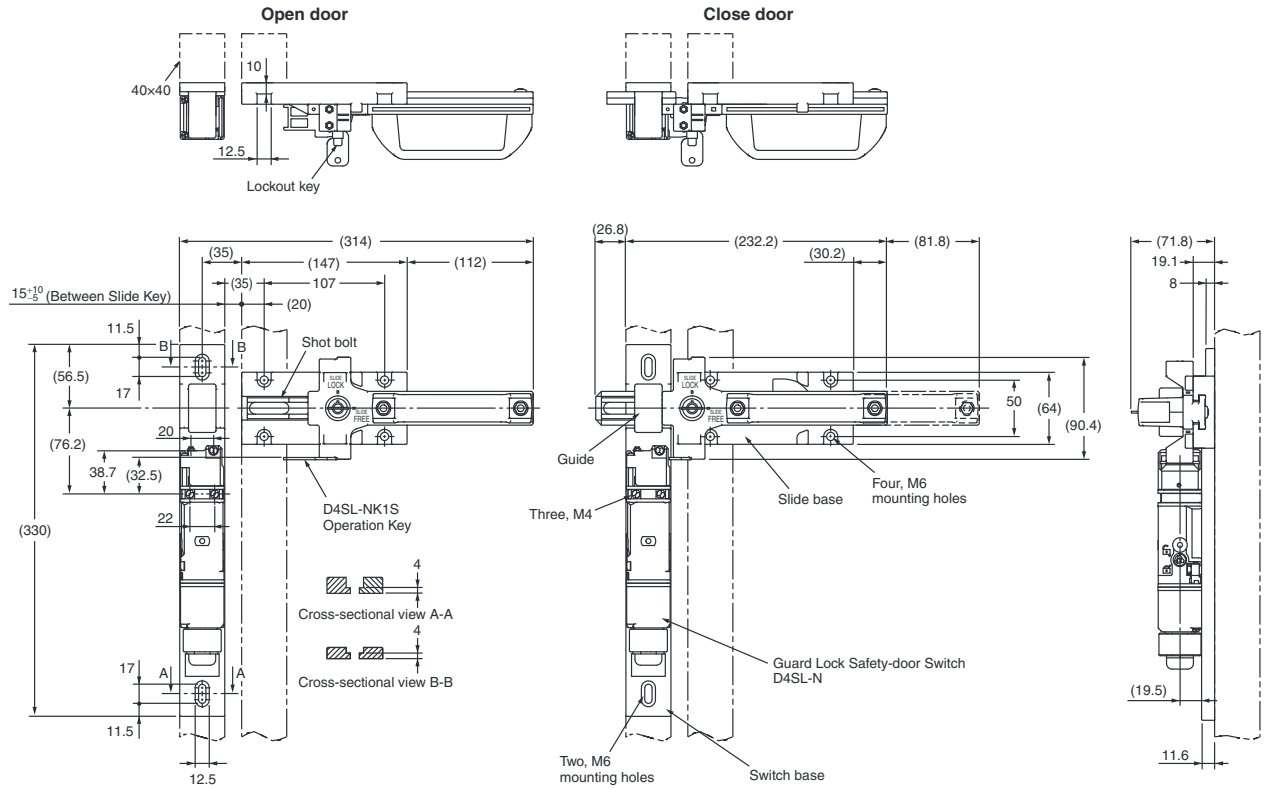


Model	L size
D4SL-CN1	1 m
D4SL-CN3	3 m
D4SL-CN5	5 m
D4SL-CN10	10 m

Connector No.	Lead wire color	Connector No.	Lead wire color
1	Black	6	Green/White
2	Black/White	7	Yellow
3	Red	8	Yellow/White
4	Red/White	9	Brown
5	Green	10	Brown/White

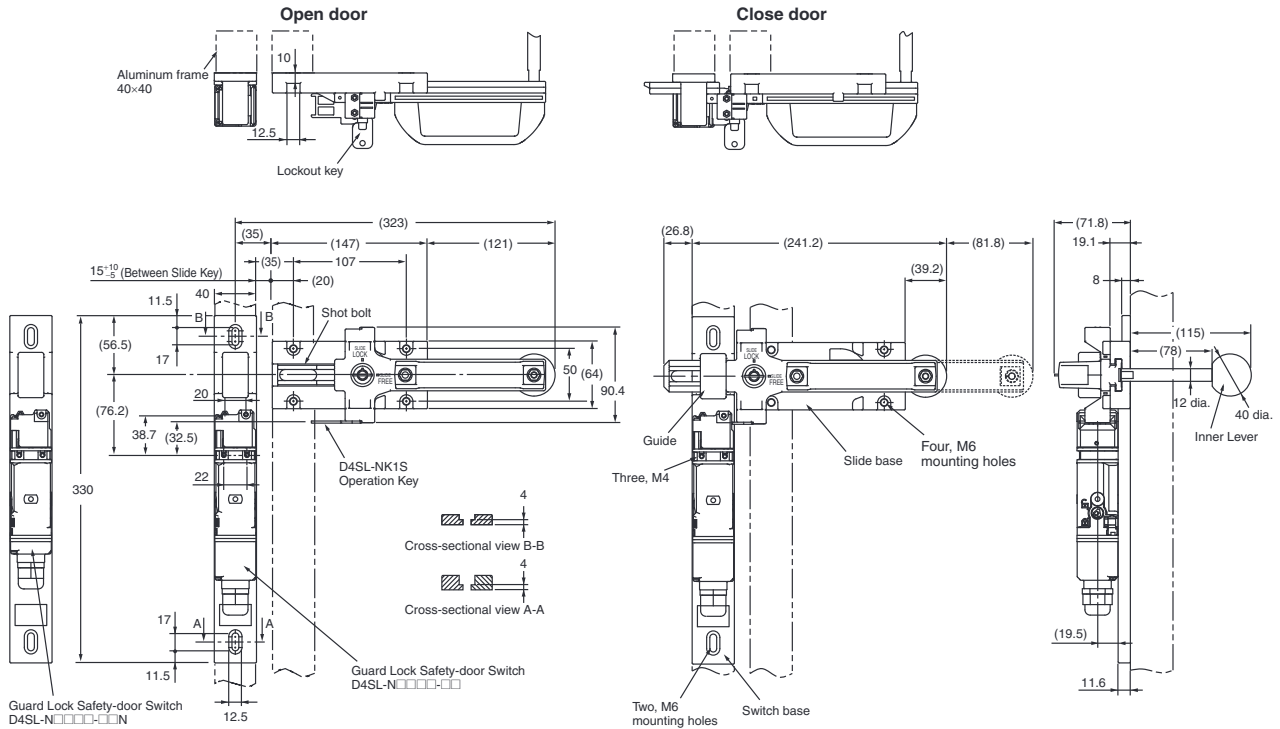
Slide Key

D4SL-NSK10-LK



D4SL-N / D4SL-NSK10-LK□

D4SL-NSK10-LKH

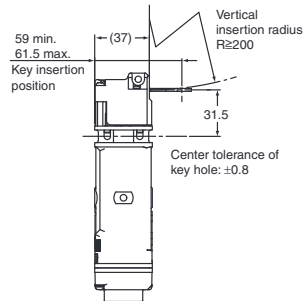
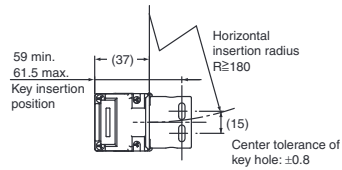


Operation key Mounting

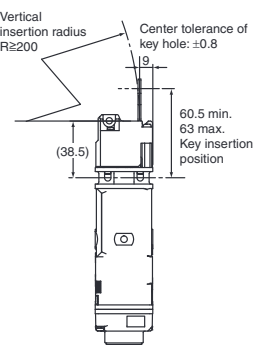
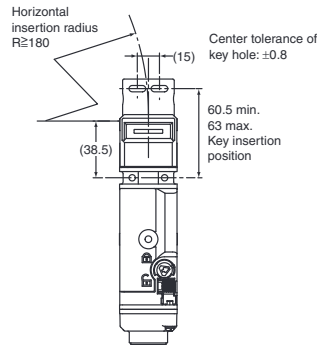
D4SL-N+D4SL-NK1



With Front-inserted Operation Key



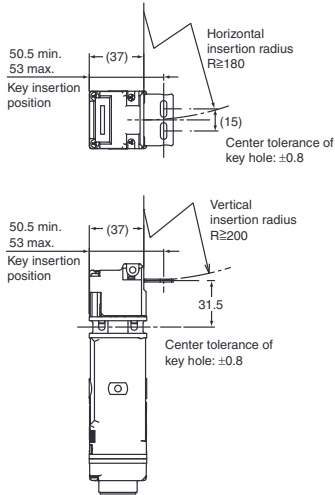
With Top-inserted Operation Key



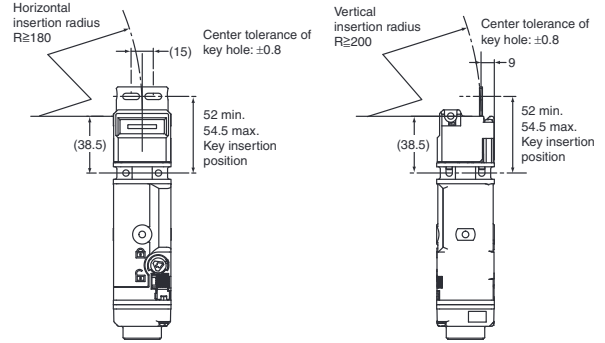
D4SL-N+D4SL-NK1S



With Front-inserted Operation Key



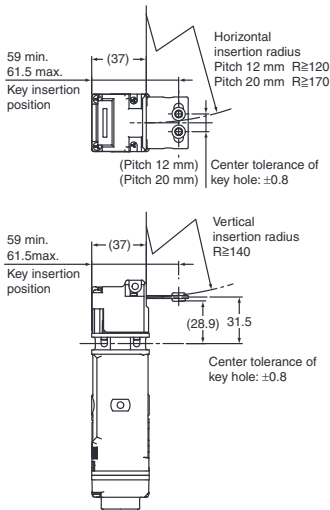
With Top-inserted Operation Key



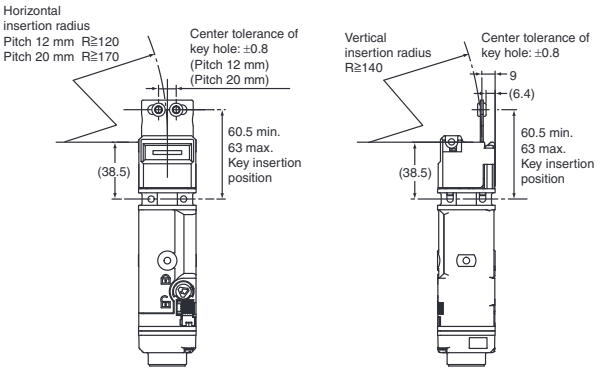
D4SL-N+D4SL-NK1G



With Front-inserted Operation Key



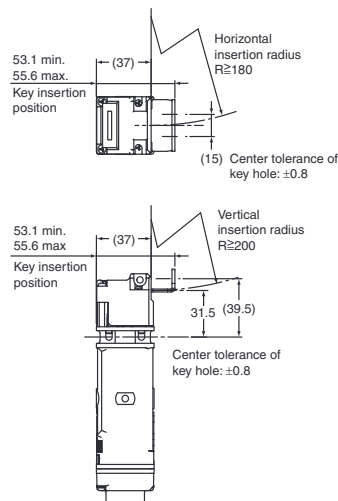
With Top-inserted Operation Key



D4SL-N+D4SL-NK2



With Front-inserted Operation Key



With Top-inserted Operation Key

