



NO: LC-037
DATE: January 2013

PRODUCT: D4SL Safety Door Switch
TYPE: Discontinuation Notice

The D4SL Series of Guard Lock Safety-Door Switches will be Replaced by the D4SL-N Version by March 2013



From March 2013 the D4SL older version will no longer be available and will be replaced by the new D4SL-N version. For all models, Dimensions (Height and Position of release-key) and some characteristics are different; for the 5-contact version the contact configuration is different (D4SL-□J□□-□, D4SL-□K□□-□, D4SL-□L□□-□, D4SL-□M□□-□).

Recommended Replacements

| Discontinued Product | Recommended Replacement |
|----------------------|-------------------------|
| D4SL-2JDG-D | D4SL-N2EFG-D |
| D4SL-2KDG-D | D4SL-N2FFG-D |
| D4SL-2LDG-D | D4SL-N2GFG-D |
| D4SL-2MDG-D | D4SL-N2HFG-D |
| D4SL-2JDG-DN | D4SL-N2EFG-DN |
| D4SL-2KDG-DN | D4SL-N2FFG-DN |
| D4SL-2LDG-DN | D4SL-N2GFG-DN |
| D4SL-2MDG-DN | D4SL-N2HFG-DN |
| D4SL-2JDG-D4 | D4SL-N2EFG-D4 |
| D4SL-2KDG-D4 | D4SL-N2FFG-D4 |
| D4SL-2LDG-D4 | D4SL-N2GFG-D4 |
| D4SL-2MDG-D4 | D4SL-N2HFG-D4 |
| D4SL-2JDG-D4N | D4SL-N2EFG-D4N |
| D4SL-2KDG-D4N | D4SL-N2FFG-D4N |
| D4SL-2LDG-D4N | D4SL-N2GFG-D4N |
| D4SL-3LDG-D4N | D4SL-N3GFG-D4N |
| D4SL-3MDG-D4N | D4SL-N3HFG-D4N |
| D4SL-4JDG-D | D4SL-N4EFG-D |
| D4SL-4KDG-D | D4SL-N4FFG-D |
| D4SL-4LDG-D | D4SL-N4GFG-D |
| D4SL-4MDG-D | D4SL-N4HFG-D |
| D4SL-4JDG-DN | D4SL-N4EFG-DN |
| D4SL-4KDG-DN | D4SL-N4FFG-DN |
| D4SL-4LDG-DN | D4SL-N4GFG-DN |
| D4SL-4MDG-DN | D4SL-N4HFG-DN |

| Discontinued Product | Recommended Replacement |
|----------------------|-------------------------|
| D4SL-2MDG-D4N | D4SL-N2HFG-D4N |
| D4SL-3JDG-D | D4SL-N3EFG-D |
| D4SL-3KDG-D | D4SL-N3FFG-D |
| D4SL-3LDG-D | D4SL-N3GFG-D |
| D4SL-3MDG-D | D4SL-N3HFG-D |
| D4SL-3JDG-DN | D4SL-N3EFG-DN |
| D4SL-3KDG-DN | D4SL-N3FFG-DN |
| D4SL-3LDG-DN | D4SL-N3GFG-DN |
| D4SL-3MDG-DN | D4SL-N3HFG-DN |
| D4SL-3JDG-D4 | D4SL-N3EFG-D4 |
| D4SL-3KDG-D4 | D4SL-N3FFG-D4 |
| D4SL-3LDG-D4 | D4SL-N3GFG-D4 |
| D4SL-3MDG-D4 | D4SL-N3HFG-D4 |
| D4SL-3JDG-D4N | D4SL-N3EFG-D4N |
| D4SL-3KDG-D4N | D4SL-N3FFG-D4N |
| D4SL-4MDG-DN | D4SL-N4HFG-DN |
| D4SL-4JDG-D4 | D4SL-N4EFG-D4 |
| D4SL-4KDG-D4 | D4SL-N4FFG-D4 |
| D4SL-4LDG-D4 | D4SL-N4GFG-D4 |
| D4SL-4MDG-D4 | D4SL-N4HFG-D4 |
| D4SL-4JDG-D4N | D4SL-N4EFG-D4N |
| D4SL-4KDG-D4N | D4SL-N4FFG-D4N |
| D4SL-4LDG-D4N | D4SL-N4GFG-D4N |
| D4SL-4MDG-D4N | D4SL-N4HFG-D4N |

6-contact types

| Discontinued Product | Recommended Replacement |
|----------------------|-------------------------|
| D4SL-2NDA-D | D4SL-N2NFA-D |
| D4SL-2PDA-D | D4SL-N2PFA-D |
| D4SL-2QDA-D | D4SL-N2QFA-D |
| D4SL-2RDA-D | D4SL-N2RFA-D |
| D4SL-2NDA-DN | D4SL-N2NFA-DN |
| D4SL-2PDA-DN | D4SL-N2PFA-DN |
| D4SL-2QDA-DN | D4SL-N2QFA-DN |
| D4SL-2RDA-DN | D4SL-N2RFA-DN |
| D4SL-2NDA-D4 | D4SL-N2NFA-D4 |
| D4SL-2PDA-D4 | D4SL-N2PFA-D4 |
| D4SL-2QDA-D4 | D4SL-N2QFA-D4 |
| D4SL-2RDA-D4 | D4SL-N2RFA-D4 |
| D4SL-2NDA-D4N | D4SL-N2NFA-D4N |
| D4SL-2PDA-D4N | D4SL-N2PFA-D4N |
| D4SL-2QDA-D4N | D4SL-N2QFA-D4N |
| D4SL-2RDA-D4N | D4SL-N2RFA-D4N |
| D4SL-3NDA-D | D4SL-N3NFA-D |
| D4SL-3PDA-D | D4SL-N3PFA-D |
| D4SL-3QDA-D | D4SL-N3QFA-D |
| D4SL-3RDA-D | D4SL-N3RFA-D |
| D4SL-3NDA-DN | D4SL-N3NFA-DN |
| D4SL-3PDA-DN | D4SL-N3PFA-DN |
| D4SL-3QDA-DN | D4SL-N3QFA-DN |
| D4SL-3RDA-DN | D4SL-N3RFA-DN |
| D4SL-3NDA-D4 | D4SL-N3NFA-D4 |
| D4SL-3PDA-D4 | D4SL-N3PFA-D4 |
| D4SL-3QDA-D4 | D4SL-N3QFA-D4 |
| D4SL-3RDA-D4 | D4SL-N3RFA-D4 |
| D4SL-3NDA-D4N | D4SL-N3NFA-D4N |
| D4SL-3PDA-D4N | D4SL-N3PFA-D4N |
| D4SL-3QDA-D4N | D4SL-N3QFA-D4N |
| D4SL-3RDA-D4N | D4SL-N3RFA-D4N |
| D4SL-4NDA-D | D4SL-N4NFA-D |
| D4SL-4PDA-D | D4SL-N4PFA-D |
| D4SL-4QDA-D | D4SL-N4QFA-D |
| D4SL-4RDA-D | D4SL-N4RFA-D |
| D4SL-4NDA-DN | D4SL-N4NFA-DN |
| D4SL-4PDA-DN | D4SL-N4PFA-DN |
| D4SL-4QDA-DN | D4SL-N4QFA-DN |
| D4SL-4RDA-DN | D4SL-N4RFA-DN |
| D4SL-4NDA-D4 | D4SL-N4NFA-D4 |
| D4SL-4PDA-D4 | D4SL-N4PFA-D4 |
| D4SL-4QDA-D4 | D4SL-N4QFA-D4 |
| D4SL-4QDG-DN | D4SL-N4QFG-DN |
| D4SL-4RDG-DN | D4SL-N4RFG-DN |
| D4SL-4NDG-D4 | D4SL-N4NFG-D4 |
| D4SL-4PDG-D4 | D4SL-N4PFG-D4 |
| D4SL-4QDG-D4 | D4SL-N4QFG-D4 |
| D4SL-4RDG-D4 | D4SL-N4RFG-D4 |
| D4SL-4NDG-D4N | D4SL-N4NFG-D4N |
| D4SL-4PDG-D4N | D4SL-N4PFG-D4N |
| D4SL-4QDG-D4N | D4SL-N4QFG-D4N |
| D4SL-4RDG-D4N | D4SL-N4RFG-D4N |
| D4SL-2NDA-D-SJ | D4SL-N2NFA-D |

| Discontinued Product | Recommended Replacement |
|----------------------|-------------------------|
| D4SL-4RDA-D4 | D4SL-N4RFA-D4 |
| D4SL-4NDA-D4N | D4SL-N4NFA-D4N |
| D4SL-4PDA-D4N | D4SL-N4PFA-D4N |
| D4SL-4QDA-D4N | D4SL-N4QFA-D4N |
| D4SL-4RDA-D4N | D4SL-N4RFA-D4N |
| D4SL-2NDG-D | D4SL-N2NFG-D |
| D4SL-2PDG-D | D4SL-N2PFG-D |
| D4SL-2QDG-D | D4SL-N2QFG-D |
| D4SL-2RDG-D | D4SL-N2RFG-D |
| D4SL-2NDG-DN | D4SL-N2NFG-DN |
| D4SL-2PDG-DN | D4SL-N2PFG-DN |
| D4SL-2QDG-DN | D4SL-N2QFG-DN |
| D4SL-2RDG-DN | D4SL-N2RFG-DN |
| D4SL-2NDG-D4 | D4SL-N2NFG-D4 |
| D4SL-2PDG-D4 | D4SL-N2PFG-D4 |
| D4SL-2QDG-D4 | D4SL-N2QFG-D4 |
| D4SL-2RDG-D4 | D4SL-N2RFG-D4 |
| D4SL-2NDG-D4N | D4SL-N2NFG-D4N |
| D4SL-2PDG-D4N | D4SL-N2PFG-D4N |
| D4SL-2QDG-D4N | D4SL-N2QFG-D4N |
| D4SL-2RDG-D4N | D4SL-N2RFG-D4N |
| D4SL-3NDG-D | D4SL-N3NFG-D |
| D4SL-3PDG-D | D4SL-N3PFG-D |
| D4SL-3QDG-D | D4SL-N3QFG-D |
| D4SL-3RDG-D | D4SL-N3RFG-D |
| D4SL-3NDG-DN | D4SL-N3NFG-DN |
| D4SL-3PDG-DN | D4SL-N3PFG-DN |
| D4SL-3QDG-DN | D4SL-N3QFG-DN |
| D4SL-3RDG-DN | D4SL-N3RFG-DN |
| D4SL-3NDG-D4 | D4SL-N3NFG-D4 |
| D4SL-3PDG-D4 | D4SL-N3PFG-D4 |
| D4SL-3QDG-D4 | D4SL-N3QFG-D4 |
| D4SL-3RDG-D4 | D4SL-N3RFG-D4 |
| D4SL-3NDG-D4N | D4SL-N3NFG-D4N |
| D4SL-3PDG-D4N | D4SL-N3PFG-D4N |
| D4SL-3QDG-D4N | D4SL-N3QFG-D4N |
| D4SL-3RDG-D4N | D4SL-N3RFG-D4N |
| D4SL-4NDG-D | D4SL-N4NFG-D |
| D4SL-4PDG-D | D4SL-N4PFG-D |
| D4SL-4QDG-D | D4SL-N4QFG-D |
| D4SL-4RDG-D | D4SL-N4RFG-D |
| D4SL-4NDG-DN | D4SL-N4NFG-DN |
| D4SL-4PDG-DN | D4SL-N4PFG-DN |
| D4SL-4QDG-DN | D4SL-N4QFG-DN |
| D4SL-4RDG-DN | D4SL-N4RFG-DN |
| D4SL-4NDG-D4 | D4SL-N4NFG-D4 |
| D4SL-4PDG-D4 | D4SL-N4PFG-D4 |
| D4SL-4QDG-D4 | D4SL-N4QFG-D4 |
| D4SL-4RDG-D4 | D4SL-N4RFG-D4 |
| D4SL-4NDG-D4N | D4SL-N4NFG-D4N |
| D4SL-4PDG-D4N | D4SL-N4PFG-D4N |
| D4SL-4QDG-D4N | D4SL-N4QFG-D4N |
| D4SL-4RDG-D4N | D4SL-N4RFG-D4N |
| D4SL-2NDG-D-SJ | D4SL-N2NFG-D |
| D4SL-2PDG-D-SJ | D4SL-N2PFG-D |
| D4SL-2QDG-D-SJ | D4SL-N2QFG-D |
| D4SL-2RDG-D-SJ | D4SL-N2RFG-D |
| D4SL-2NDG-DN-SJ | D4SL-N2NFG-DN |
| D4SL-2PDG-DN-SJ | D4SL-N2PFG-DN |

| Discontinued Product | Recommended Replacement |
|-----------------------------|--------------------------------|
| D4SL-2PDA-D-SJ | D4SL-N2PFA-D |
| D4SL-2QDA-D-SJ | D4SL-N2QFA-D |
| D4SL-2RDA-D-SJ | D4SL-N2RFA-D |
| D4SL-2NDA-DN-SJ | D4SL-N2NFA-DN |
| D4SL-2PDA-DN-SJ | D4SL-N2PFA-DN |
| D4SL-2QDA-DN-SJ | D4SL-N2QFA-DN |
| D4SL-2RDA-DN-SJ | D4SL-N2RFA-DN |
| D4SL-4NDA-D-SJ | D4SL-N4NFA-D |
| D4SL-4PDA-D-SJ | D4SL-N4PFA-D |
| D4SL-4QDA-D-SJ | D4SL-N4QFA-D |

| Discontinued Product | Recommended Replacement |
|-----------------------------|--------------------------------|
| D4SL-2QDG-DN-SJ | D4SL-N2QFG-DN |
| D4SL-2RDG-DN-SJ | D4SL-N2RFG-DN |
| D4SL-4NDG-D-SJ | D4SL-N4NFG-D |
| D4SL-4PDG-D-SJ | D4SL-N4PFG-D |
| D4SL-4QDG-D-SJ | D4SL-N4QFG-D |
| D4SL-4RDG-D-SJ | D4SL-N4RFG-D |
| D4SL-4NDG-DN-SJ | D4SL-N4NFG-DN |
| D4SL-4PDG-DN-SJ | D4SL-N4PFG-DN |
| D4SL-4QDG-DN-SJ | D4SL-N4QFG-DN |
| D4SL-4RDG-DN-SJ | D4SL-N4RFG-DN |

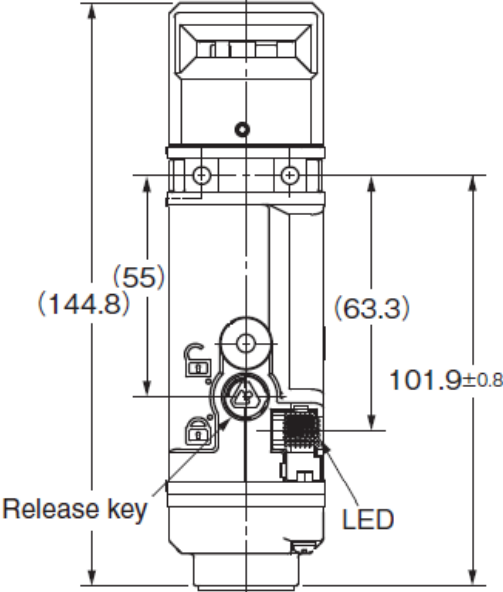
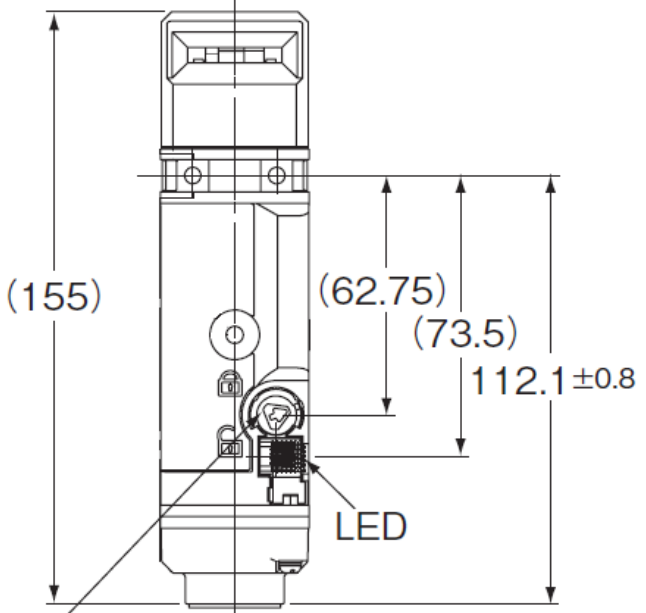
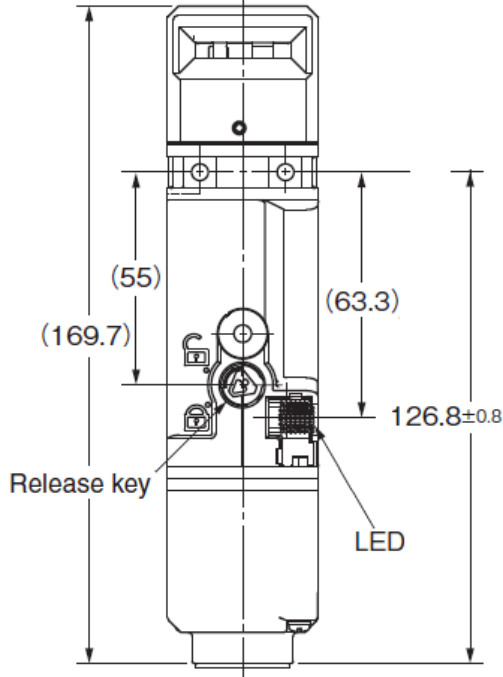
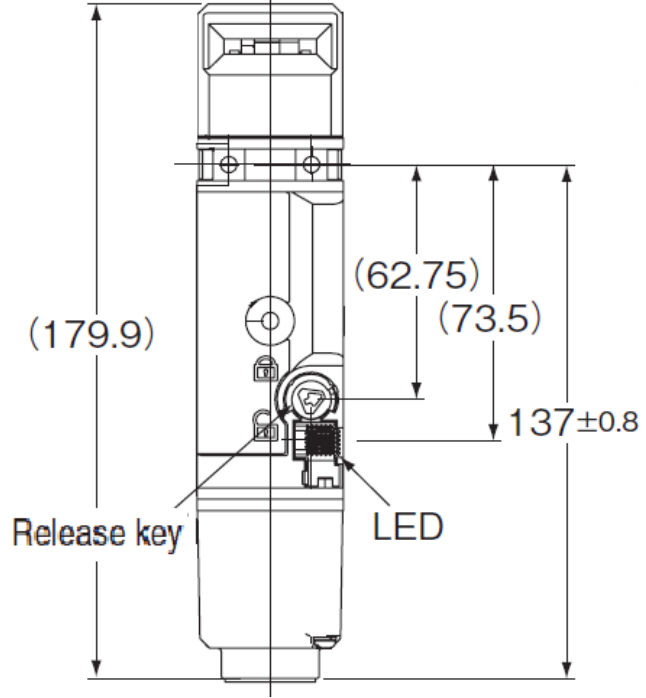
Actuators

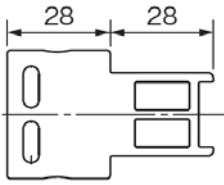
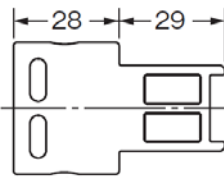
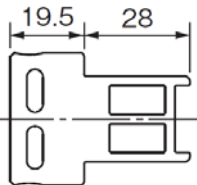
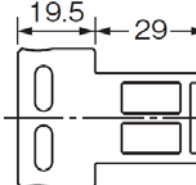
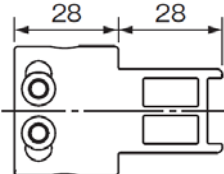
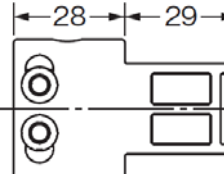
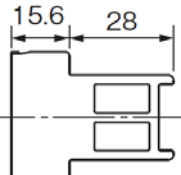
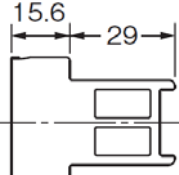
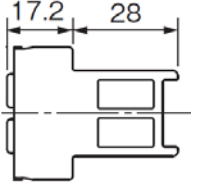
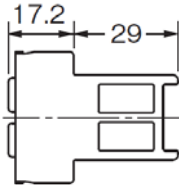
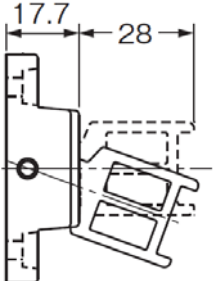
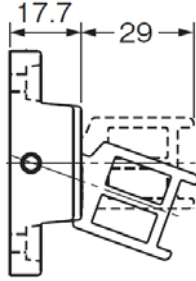
| Discontinued Product | Recommended Replacement |
|-----------------------------|--------------------------------|
| D4SL-K1 | D4SL-NK1 |
| D4SL-K1S | D4SL-NK1S |
| D4SL-K1G | D4SL-NK1G |
| D4SL-K2 | D4SL-NK2 |
| D4SL-K2G | D4SL-NK2G |
| D4SL-K3 | D4SL-NK3 |

Wire Connection


| Discontinued Product Model D4SL (5-contact types) | | | Recommended Replacement Model D4SL-N (5-contact types) | | |
|---|-----------------------------------|-------------------|---|-----------------------------------|-------------------|
| Contact form (Contact configuration) and Operating pattern | | | Contact form (Contact configuration) and Operating pattern | | |
| Contact Form | | Operating pattern | Contact Form | | Operating pattern |
| Lock monitor | Door open/ closed detection | | Lock monitor | Door open/ closed detection | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Dimensions

| Product discontinuation Model D4SL (Switches) | Recommendable replacement Model D4SL-N (Switches) |
|---|---|
| <p>Connector Types</p>  <p>Technical drawing of Model D4SL (Switches) Connector Types. Dimensions shown: (144.8) total height, (55) height to top of connector, (63.3) height to top of LED, and 101.9±0.8 height to bottom of LED. Labels include Release key and LED.</p> | <p>Connector Types</p>  <p>Technical drawing of Model D4SL-N (Switches) Connector Types. Dimensions shown: (155) total height, (62.75) height to top of connector, (73.5) height to top of LED, and 112.1±0.8 height to bottom of LED. Labels include Release key and LED.</p> |
| <p>Terminal Types</p>  <p>Technical drawing of Model D4SL (Switches) Terminal Types. Dimensions shown: (169.7) total height, (55) height to top of connector, (63.3) height to top of LED, and 126.8±0.8 height to bottom of LED. Labels include Release key and LED.</p> | <p>Terminal Types</p>  <p>Technical drawing of Model D4SL-N (Switches) Terminal Types. Dimensions shown: (179.9) total height, (62.75) height to top of connector, (73.5) height to top of LED, and 137±0.8 height to bottom of LED. Labels include Release key and LED.</p> |

| Product discontinuation Model D4SL-K□ (Actuators) | Recommendable replacement Model D4SL-NK□ (Actuators) |
|--|---|
| Horizontal Mounting  | Horizontal Mounting  |
| Horizontal Mounting (Short)  | Horizontal Mounting (Short)  |
| Horizontal Mounting (Cushion Rubber)  | Horizontal Mounting (Cushion Rubber)  |
| Vertical Mounting  | Vertical Mounting  |
| Vertical Mounting (Cushion Rubber)  | Vertical Mounting (Cushion Rubber)  |
| Adjustable (Horizontal)  | Adjustable (Horizontal)  |

Characteristics and Ratings

| Item | Product discontinuation Model D4SL | Recommendable replacement Model D4SL-N | | | | | | | | | | | | | | | | | | |
|--|--|---|-------|-------|------------------------------|-------|--------|------------------------------|-------|-------|---|---------------------------|-------|-------|------------------------------|----------------------|--------|------------------------------|-------|------|
| TÜV Certified Ratings | <table border="1" data-bbox="407 243 875 432"> <tr> <td>Item Utilization category</td> <td>AC-15</td> <td>DC-13</td> </tr> <tr> <td>Rated operating current (Ie)</td> <td>1.5 A</td> <td>0.22 A</td> </tr> <tr> <td>Rated operating voltage (Ue)</td> <td>120 V</td> <td>125 V</td> </tr> </table> | Item Utilization category | AC-15 | DC-13 | Rated operating current (Ie) | 1.5 A | 0.22 A | Rated operating voltage (Ue) | 120 V | 125 V | <table border="1" data-bbox="935 243 1433 432"> <tr> <td>Item Utilization category</td> <td>AC-15</td> <td>DC-13</td> </tr> <tr> <td>Rated operating current (Ie)</td> <td>1.5 A *1 1.0 A *2</td> <td>0.22 A</td> </tr> <tr> <td>Rated operating voltage (Ue)</td> <td>120 V</td> <td>12 V</td> </tr> </table> <p>*1. 11-42, 21-52, 21-22 *2. Other terminals</p> | Item Utilization category | AC-15 | DC-13 | Rated operating current (Ie) | 1.5 A *1 1.0 A *2 | 0.22 A | Rated operating voltage (Ue) | 120 V | 12 V |
| Item Utilization category | AC-15 | DC-13 | | | | | | | | | | | | | | | | | | |
| Rated operating current (Ie) | 1.5 A | 0.22 A | | | | | | | | | | | | | | | | | | |
| Rated operating voltage (Ue) | 120 V | 125 V | | | | | | | | | | | | | | | | | | |
| Item Utilization category | AC-15 | DC-13 | | | | | | | | | | | | | | | | | | |
| Rated operating current (Ie) | 1.5 A *1 1.0 A *2 | 0.22 A | | | | | | | | | | | | | | | | | | |
| Rated operating voltage (Ue) | 120 V | 12 V | | | | | | | | | | | | | | | | | | |
| Conventional free air thermal current (Ith) | 2.5 A | 2.5 A (11-42, 21-52, 21-22) 1.0 A (Others) | | | | | | | | | | | | | | | | | | |
| Vibration resistance (Malfunction) | 10 to 55 Hz 0.75 mm single amplitude | 10 to 55 Hz 0.35 mm single amplitude | | | | | | | | | | | | | | | | | | |
| Shock resistance (Malfunction) | 100 m/s ² min. | 80 m/s ² min. | | | | | | | | | | | | | | | | | | |
| Solenoid Coil Current Consumption | Power ON: Approx. 34 W at 1.4 A Constant: Approx. 2.6 W (average) at 0.4 A (max.) *A starting current is applied to the solenoid for maximum of one second. After this, the internal circuit switches to a constant current. | 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 *A starting current is applied to the solenoid for Approx. 10 seconds. After this, the internal circuit switches to a constant current. | | | | | | | | | | | | | | | | | | |
| Head Material | Metal | Plastic *Metal Head is also available for 5-contact types and 6-contact types. The models have to be "D4SL-N□□D□-□□□". | | | | | | | | | | | | | | | | | | |
| Release Key Material (Standard type) | Plastic *No material change for the "Special release key type". | Metal (Center part only)  | | | | | | | | | | | | | | | | | | |

Additional Information

For more information about the discontinuation of the D4SL and future discontinuation of the D4GL please refer to the presentation:

[130108 D4SL Migration Presentation.zip](#)