

PRODUCT NEWS

Product Discontinuation Notice

Safety-Door Switch

July 25th, 2011

No.*****-****

Discontinuation Notice of part of D4BL series

Product Discontinuation

Guard Lock Safety-Door Switch



Part of D4BL series



Recommended Replacement

Guard Lock Safety-Door Switch

D4NL series

Date of discontinue : End of March, 2012

Caution on recommended replacement

- Appearance and dimensions are different
- Mounting dimensions are different
- Characteristics and operation ratings are different

Difference from discontinued product

Model	Body color	Dimensions	Wire connection	Mounting dimensions	Characteristics	Operation ratings	Operation methods
D4NL	--	--	--	--	--	--	*

** : Fully compatible

* : The change is a little / Almost compatible



-- : Not compatible

- : No corresponding specification

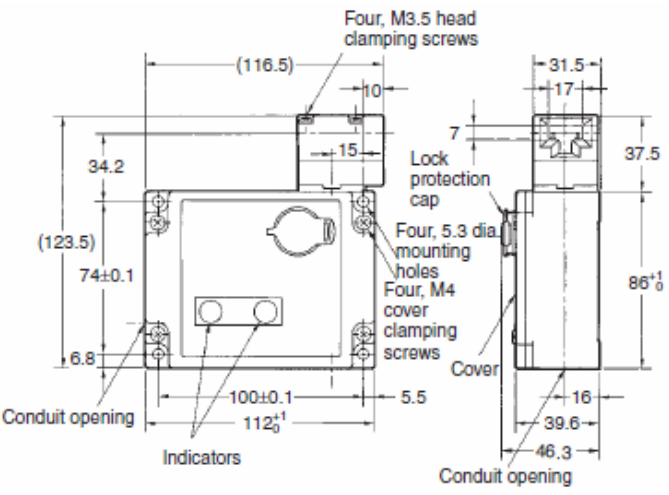
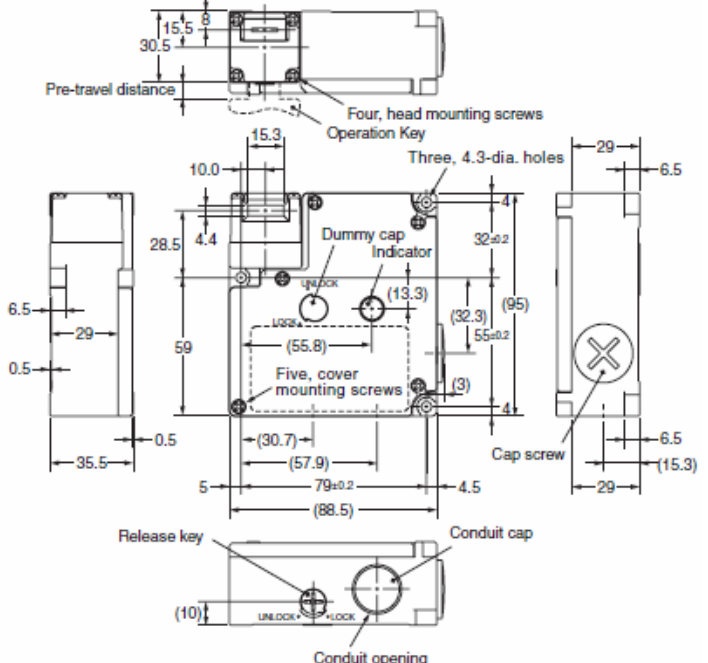
Product discontinuation and recommended replacement

Product discontinuation	Recommended replacement	Product discontinuation	Recommended replacement
D4BL-1CRB	D4NL-1AFA-B	D4BL-3CRB	D4NL-4AFA-B
D4BL-1CRB-A	D4NL-1AFA-B	D4BL-3CRB-A	D4NL-4AFA-B
D4BL-1DRB	D4NL-1CFA-B	D4BL-3DRB	D4NL-4CFA-B
D4BL-1DRB-A	D4NL-1CFA-B	D4BL-3DRB-A	D4NL-4CFA-B
D4BL-2CRB	D4NL-2AFA-B	D4BL-3CRG	D4NL-4AFG-B
D4BL-2CRB-A	D4NL-2AFA-B	D4BL-3CRG-A	D4NL-4AFG-B
D4BL-2DRB	D4NL-2CFA-B	D4BL-3DRG	D4NL-4CFG-B
D4BL-2DRB-A	D4NL-2CFA-B	D4BL-3DRG-A	D4NL-4CFG-B
D4BL-3CRA	D4NL-4AFA-B	D4BL-4CRB	D4NL-4AFA-B
D4BL-3CRA-A	D4NL-4AFA-B	D4BL-4CRB-A	D4NL-4AFA-B
D4BL-3DRA	D4NL-4CFA-B	D4BL-4DRB	D4NL-4CFA-B
D4BL-3DRA-A	D4NL-4CFA-B	D4BL-4DRB-A	D4NL-4CFA-B

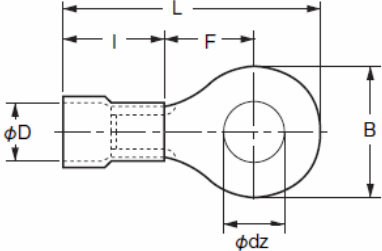
Body color

Product discontinuation Model D4BL series	Recommended replacement Model D4NL series
	

Dimension

Product discontinuation Model D4BL series	Recommended replacement Model D4NL series
 <p>Four, M3.5 head clamping screws</p> <p>(116.5)</p> <p>10</p> <p>34.2</p> <p>(123.5)</p> <p>74±0.1</p> <p>6.8</p> <p>Conduit opening</p> <p>Indicators</p> <p>100±0.1</p> <p>112⁺¹</p> <p>5.5</p> <p>31.5</p> <p>17</p> <p>7</p> <p>Lock protection cap</p> <p>Four, 5.3 dia. mounting holes</p> <p>Four, M4 cover clamping screws</p> <p>Cover</p> <p>86⁺¹₀</p> <p>37.5</p> <p>16</p> <p>39.6</p> <p>46.3</p> <p>Conduit opening</p>	 <p>Pre-travel distance</p> <p>15.5</p> <p>30.5</p> <p>Four, head mounting screws</p> <p>Operation Key</p> <p>15.3</p> <p>10.0</p> <p>Three, 4.3-dia. holes</p> <p>29</p> <p>6.5</p> <p>28.5</p> <p>4.4</p> <p>Dummy cap</p> <p>Indicator</p> <p>(13.3)</p> <p>(32.3)</p> <p>(95)</p> <p>59</p> <p>Five, cover mounting screws</p> <p>(3)</p> <p>4</p> <p>6.5</p> <p>35.5</p> <p>0.5</p> <p>(30.7)</p> <p>(57.9)</p> <p>79±0.2</p> <p>(88.5)</p> <p>4.5</p> <p>Cap screw</p> <p>6.5</p> <p>(15.3)</p> <p>29</p> <p>Release key</p> <p>Conduit cap</p> <p>(10)</p> <p>CONDUCTOR</p> <p>LOCK</p> <p>CONDUIT OPENING</p>

Wiring

Product discontinuation Model D4BL series	Recommended replacement Model D4NL series
<p>Proper lead wire size : AWG20 to AWG14(0.5 to 2.5mm²)</p> <p>Recommended crimp terminal size : non</p>	<p>Proper lead wire size : AWG20 to AWG18(0.5 to 0.75mm²)</p> <p>Recommended crimp terminal size :</p> <p>t : 0.5mm ϕdz : 3.7mm ϕD : 2.9mm B : 6.6mm L : 19mm F : 7.7mm I : 8.0mm</p> 

Characteristics

Product discontinuation Model D4BL series	Recommended replacement Model D4NL series																																																																																																														
<p>Electrical Durability: 500,000 operations min. (10A resistive load at 250VAC)</p> <p>TUV Certified Ratings</p> <table border="1"> <thead> <tr> <th></th> <th>Without indicator</th> <th>With indicator</th> </tr> </thead> <tbody> <tr> <td>Utilization category</td> <td>AC-15</td> <td>AC-15</td> </tr> <tr> <td>Rated operating current (Ie)</td> <td>3A</td> <td>6A</td> </tr> <tr> <td>Rated operating voltage (Ue)</td> <td>250V</td> <td>115V</td> </tr> </tbody> </table> <p>UL/CSA Certified Ratings A300</p> <table border="1"> <thead> <tr> <th rowspan="2">Rated Voltage</th> <th rowspan="2">Carry current</th> <th colspan="2">Current (A)</th> <th colspan="2">Volt-amperes (VA)</th> </tr> <tr> <th>Make</th> <th>Break</th> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>120VAC</td> <td rowspan="2">10A</td> <td>60</td> <td>6</td> <td rowspan="2">7,200</td> <td rowspan="2">720</td> </tr> <tr> <td>240VAC</td> <td>30</td> <td>3</td> </tr> </tbody> </table> <p>Solenoid Coil Characteristics</p> <table border="1"> <thead> <tr> <th></th> <th>D4BL-□□RA-□</th> <th>D4BL-□□RG-□</th> </tr> </thead> <tbody> <tr> <td>Rated operating voltage (100%ED)</td> <td>24VDC +10%/-15%</td> <td>24VDC +10%/-15%</td> </tr> <tr> <td>Current consumption</td> <td>Approx. 300mA</td> <td>Approx. 300mA</td> </tr> <tr> <td>Insulation</td> <td>Class F (130C max)</td> <td>Class F (130C max)</td> </tr> </tbody> </table> <p>Solenoid Coil Characteristics</p> <table border="1"> <thead> <tr> <th></th> <th>D4BL-□□RB-□</th> </tr> </thead> <tbody> <tr> <td>Rated operating voltage (100%ED)</td> <td>110VAC +10%/-10%</td> </tr> <tr> <td>Current consumption</td> <td>Approx. 98mA</td> </tr> <tr> <td>Insulation</td> <td>Class F (130C max)</td> </tr> </tbody> </table>		Without indicator	With indicator	Utilization category	AC-15	AC-15	Rated operating current (Ie)	3A	6A	Rated operating voltage (Ue)	250V	115V	Rated Voltage	Carry current	Current (A)		Volt-amperes (VA)		Make	Break	Make	Break	120VAC	10A	60	6	7,200	720	240VAC	30	3		D4BL-□□RA-□	D4BL-□□RG-□	Rated operating voltage (100%ED)	24VDC +10%/-15%	24VDC +10%/-15%	Current consumption	Approx. 300mA	Approx. 300mA	Insulation	Class F (130C max)	Class F (130C max)		D4BL-□□RB-□	Rated operating voltage (100%ED)	110VAC +10%/-10%	Current consumption	Approx. 98mA	Insulation	Class F (130C max)	<p>Electrical Durability: 500,000 operations min. (3A resistive load at 250VAC)</p> <p>TUV Certified Ratings</p> <table border="1"> <thead> <tr> <th>Utilization category</th> <th>AC-15</th> <th>DC-13</th> </tr> </thead> <tbody> <tr> <td>Rated operating current (Ie)</td> <td>3A</td> <td>0.27A</td> </tr> <tr> <td>Rated operating voltage (Ue)</td> <td>240V</td> <td>250V</td> </tr> </tbody> </table> <p>UL/CSA Certified Ratings A300</p> <table border="1"> <thead> <tr> <th rowspan="2">Rated Voltage</th> <th rowspan="2">Carry current</th> <th colspan="2">Current (A)</th> <th colspan="2">Volt-amperes (VA)</th> </tr> <tr> <th>Make</th> <th>Break</th> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>120VAC</td> <td rowspan="2">10A</td> <td>60</td> <td>6</td> <td rowspan="2">7,200</td> <td rowspan="2">720</td> </tr> <tr> <td>240VAC</td> <td>30</td> <td>3</td> </tr> </tbody> </table> <p>Q300</p> <table border="1"> <thead> <tr> <th rowspan="2">Rated Voltage</th> <th rowspan="2">Carry current</th> <th colspan="2">Current (A)</th> <th colspan="2">Volt-amperes (VA)</th> </tr> <tr> <th>Make</th> <th>Break</th> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>125VDC</td> <td rowspan="2">2.5A</td> <td>0.55</td> <td>0.55</td> <td rowspan="2">69</td> <td rowspan="2">69</td> </tr> <tr> <td>250VDC</td> <td>0.27</td> <td>0.27</td> </tr> </tbody> </table> <p>Solenoid Coil Characteristics</p> <table border="1"> <thead> <tr> <th></th> <th>D4NL-□□FA-B</th> <th>D4NL-□□FG-B</th> </tr> </thead> <tbody> <tr> <td>Rated operating voltage (100%ED)</td> <td>24VDC +10%/-15%</td> <td>24VDC +10%/-15%</td> </tr> <tr> <td>Current consumption</td> <td>Approx. 200mA</td> <td>Approx. 200mA</td> </tr> <tr> <td>Insulation</td> <td>Class F (130C max)</td> <td>Class F (130C max)</td> </tr> </tbody> </table>	Utilization category	AC-15	DC-13	Rated operating current (Ie)	3A	0.27A	Rated operating voltage (Ue)	240V	250V	Rated Voltage	Carry current	Current (A)		Volt-amperes (VA)		Make	Break	Make	Break	120VAC	10A	60	6	7,200	720	240VAC	30	3	Rated Voltage	Carry current	Current (A)		Volt-amperes (VA)		Make	Break	Make	Break	125VDC	2.5A	0.55	0.55	69	69	250VDC	0.27	0.27		D4NL-□□FA-B	D4NL-□□FG-B	Rated operating voltage (100%ED)	24VDC +10%/-15%	24VDC +10%/-15%	Current consumption	Approx. 200mA	Approx. 200mA	Insulation	Class F (130C max)	Class F (130C max)
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Operation ratings

Product discontinuation Model D4BL series	Recommended replacement Model D4NL series
Key insertion force: 19.61N max. Key extraction force: 19.61N max. Movement before being Locked: 15mm max. Total travel: 23mm min.	Key insertion force: 15N max. Key extraction force: 30N max. Pretravel (PT): 9mm max. Movement before being Locked: 3mm min.