

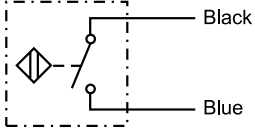
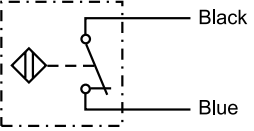
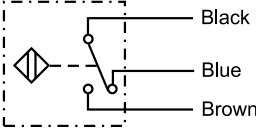
# Magnetic Sensors for Linear Actuators

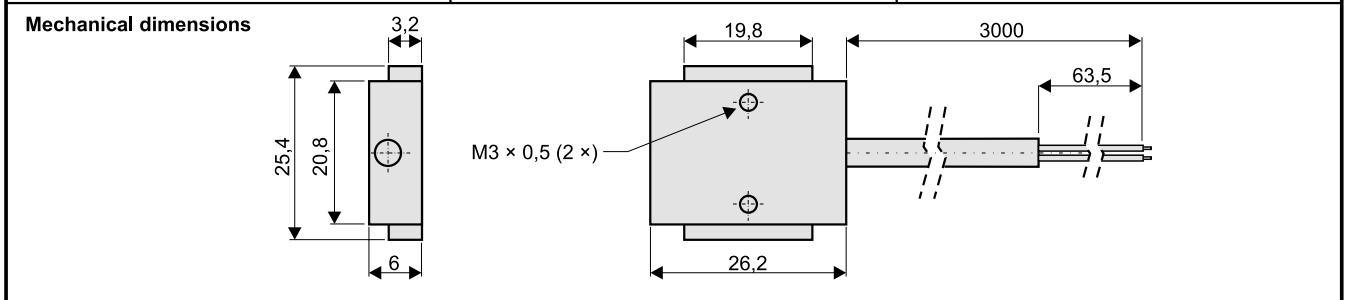
Installation Manual

Edition 2014-02

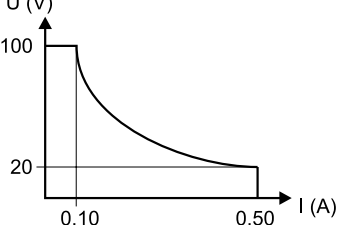
DW110237GB-1402



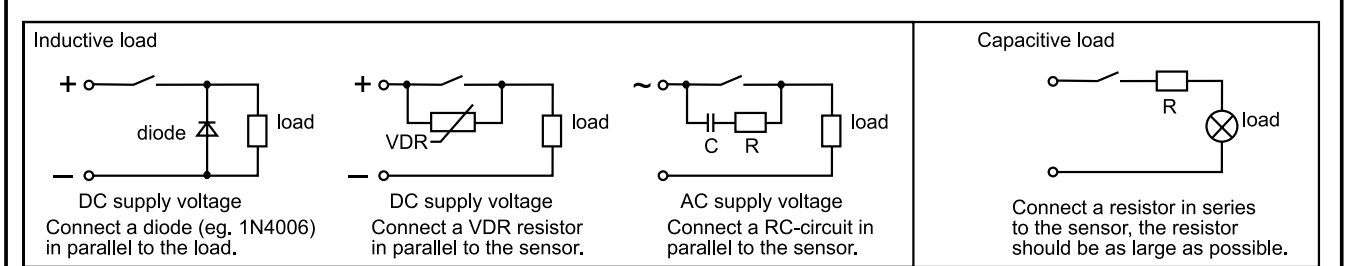
<p><b>Magnetic Sensor</b> <b>N.O. (normally open)</b> <b>P/n. D535 070</b></p>	<p><b>Magnetic Sensor</b> <b>N.C. (normally closed)</b> <b>P/n. D535 071</b></p>	<p><b>Magnetic Sensor</b> <b>Changing contact</b> <b>P/n. D535 073</b></p>
<p>Connection diagram</p> 	<p>Connection diagram</p> 	<p>Connection diagram</p> 



<p><b>Mechanical data</b></p>	<p>Housing material PA 6.6 Cable 3 m PUR 2(3) x 0,14 mm<sup>2</sup> Mechanical life 3 x 10 operations at resistive load</p>	<p>Operating temperature -25°C – +65°C Protection class IP 67</p>
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<p><b>Electrical data</b></p>	<p>Max. power 10 VA Max. voltage 100 Vdc Max. current 0,5 A Max. contact resistance 0,2 ohm</p>	 <table border="1" data-bbox="1225 969 1390 1126"> <thead> <tr> <th>U (V)</th> <th>I (A)</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>0,50</td> </tr> <tr> <td>24</td> <td>0,417</td> </tr> <tr> <td>48</td> <td>0,208</td> </tr> <tr> <td>100</td> <td>0,10</td> </tr> </tbody> </table> <p>Graph only for resistive load</p>	U (V)	I (A)	20	0,50	24	0,417	48	0,208	100	0,10
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**Contact protection**  
Very often the load has an inductive or capacitive character. In these cases it is important to protect the contact against spikes and high power. There is no general solution for all the different applications, but the following information gives some important guide lines.



**General application information**  
The duration of the signal from the sensor when the magnet passes depends mainly upon two factors. The first is the length of the magnet and the second is the speed of the magnet. The length of the magnet can be found in the manuals for each product while the speed must be calculated by the customer. If the duration of the signal becomes too short the input device for the signal (relay, PLC input, etc.) may not be able to detect it. Note that the response time for different input devices differ very much. The duration of the signal from the sensor will also vary depending on the temperature, current, supply voltage or/and vibrations. The type of contact protection will also affect the duration of the signal. If there is a problem to detect a signal or if the function becomes erratic, try the following operations:

1. Select an input device with better (shorter) response time.
2. Reduce the speed (if possible).
3. Reduce the current or the supply voltage.

Version History	
Edition	Reason for revision
2014-02	Added D535073 and change of layout

DW110237GB-1402 TJ  
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