Magnetically Actuated Linear Position Sensor
WIM200-Q25L-LI-EXI-H1141

- ATEX category II 2 G, Ex Zone 1
- ATEX category II 2 D, Ex Zone 21
- Rectangular, aluminium / plastic
- Many mounting possibilities
- Immune to external magnetic fields
- Extremely short blind zones
- 2-wire, 14…30 VDC
- Analog output
- 4 … 20 mA
- Male connector, M12 x 1

Wiring Diagram

Functional principle
Linear position sensors operate on the Hall principle and accomplish simple control tasks. They provide an output signal proportional to the actuating magnet. The polarity of the magnet has no effect on the output signal. The outstanding features of these robust sensors are excellent repeatability, resolution and linearity, excellent electromagnetic capability and a broad temperature range.

Characteristic
Numerous accessories allow the sensor to be mounted in various positions. Opposite to the active face, the sensor housing features a mounting groove for which sliding blocks are available. The lateral slot profiles can be used for mounting, too.

When used with an external positioning element, the sensor can either be mounted with the active face located opposite or laterally to the mounting surface. Drilling slots guarantee highest flexibility for fine adjustment.

The mounting accessories for linear position sensors can be adjusted to the respective cylinder sizes. The stainless steel accessories guarantee safe and robust mounting as well as highest flexibility.
## Accessories

<table>
<thead>
<tr>
<th>Type code</th>
<th>Ident no.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>IMX12-AI01-2I2IU-H0 /24VDC</td>
<td>7580305</td>
<td>Isolating transducer; 2-channel; power supply of passive 2-wire isolating transducers with HART communication as well as connection of active 2-wire transmitters, SIL2 acc. to IEC61508; Ex-proof version; selectable with either current source/sink or voltage output; removable screw terminals; 24 VDC power supply</td>
</tr>
<tr>
<td>M1-Q25L</td>
<td>6901045</td>
<td>Mounting foot for linear position sensor Q25L; aluminium; 2 pcs. per bag</td>
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<tr>
<td>M2-Q25L</td>
<td>6901046</td>
<td>Mounting foot for linear position sensor Q25L; aluminium; 2 pcs. per bag</td>
</tr>
<tr>
<td>MB1-Q25</td>
<td>6901026</td>
<td>Mounting clip for linear position sensor Q25L; material Stainless steel; 2 pcs. per bag</td>
</tr>
<tr>
<td>MB2.1-Q25</td>
<td>6901027</td>
<td>Mounting bracket for linear position sensors Q25L; mounting on pneumatic cylinders (40…60mm); material: Stainless steel; 4 pcs. per bag</td>
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<tr>
<td>MB2.2-Q25</td>
<td>6901028</td>
<td>Mounting bracket for linear position sensors Q25L; mounting on pneumatic cylinders (70…120mm); material: Stainless steel; 4 pcs. per bag</td>
</tr>
<tr>
<td>M4-Q25L</td>
<td>6901048</td>
<td>Mounting bracket for linear position sensor Q25L; material Stainless steel; 2 pcs. per bag</td>
</tr>
<tr>
<td>MN-M4-Q25</td>
<td>6901025</td>
<td>Sliding block with M4 thread for the backside profile of the Q25L; material: galvanized steel; 10 pcs. per bag</td>
</tr>
<tr>
<td>MN-M5-Q25</td>
<td>6901039</td>
<td>Sliding block with M5 thread for the backside profile of the Q25L; material Stainless steel; 10 pcs. per bag</td>
</tr>
<tr>
<td>DM-Q12</td>
<td>6900367</td>
<td>Actuation magnet; rectangular, plastic; attainable switching distance 58 mm on BIM-(E)M12 sensors resp. 49 mm on BIM-EG08 sensors; in combination with Q25L linear position sensors: recommended distance between the sensor and magnet: 3…5 mm</td>
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<tr>
<td>DMR15-6-3</td>
<td>6900216</td>
<td>Actuation magnet, Ø 15 mm (Ø 3 mm), h: 6 mm; sensing range 36 mm on BIM-(E)M12 sensors resp. 32 mm on BIM-EG08 sensors; in combination with Q25L: Recommended distance between sensor and magnet: 3 … 4 mm</td>
</tr>
<tr>
<td>DMR20-10-4</td>
<td>6900214</td>
<td>Actuation magnet; Ø 20 mm (Ø 4 mm), h: 10 mm; sensing range 59 mm on BIM-(E)M12 sensors resp. 50 mm on BIM-EG08 sensors; in combination with Q25L: Recommended distance between sensor and magnet: 3 … 4 mm</td>
</tr>
<tr>
<td>DMR31-15-5</td>
<td>6900215</td>
<td>Actuation magnet, Ø 31 mm (Ø 5 mm), h: 15 mm; sensing range 90 mm on BIM-(E)M12 sensors resp. 78 mm on BIM-EG08 sensors; in combination with Q25L: Recommended distance between sensor and magnet: 3 … 5 mm</td>
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Magnetically Actuated Linear Position Sensor
WIM200-Q25L-LI-EXI-H1141

Operating manual

Intended use
This device fulfills the directive 2014/34/EC and is suited for use in explosion hazardous areas according to EN60079-0:2012 + A11 -11:2012. In order to ensure correct operation to the intended purpose it is required to observe the national regulations and directives.

For use in explosion hazardous areas conform to classification
II 2 G and II 2 D (Group II, Category 2 G, electrical equipment for gaseous atmospheres and category 2 D, electrical equipment for dust atmospheres)

Marking (see device or technical data sheet)
- II 2 G Ex ia IIC T6 Gb and
- II 2 D Ex ia IIIC T85 °C Db acc. to EN 60079-0, -11

Local admissible ambient temperature
-25…+66 °C

Installation/Commissioning
These devices may only be installed, connected and operated by trained and qualified staff. Qualified staff must have knowledge of protection classes, directives and regulations concerning electrical equipment designed for use in explosion hazardous areas.

Please verify that the classification and the marking on the device comply with the actual application conditions.

This device is only suited for connection to approved Exi circuits according to EN 60079-0 and EN 60079-11. Please observe the maximum admissible electrical values.

After connection to other circuits the sensor may no longer be used in Exi installations. When interconnected to (associated) electrical equipment, it is required to perform the "Proof of intrinsic safety" (EN60079-14).

Installation and mounting instructions
Avoid static charging of cables and plastic devices. Please only clean the device with a damp cloth. Do not install the device in a dust flow and avoid build-up of dust deposits on the device.

If the devices and the cable could be subject to mechanical damage, they must be protected accordingly. They must also be shielded against strong electro-magnetic fields.

The pin configuration and the electrical specifications can be taken from the device marking or the technical data sheet.

In order to avoid contamination of the device, please remove possible blanking plugs of the cable glands or connectors only shortly before inserting the cable or opening the cable socket.

Special conditions for safe operation
The device must be protected against any kind of mechanical damage, avoid static charging.

Service/Maintenance
Repairs are not possible. The approval expires if the device is repaired or modified by a person other than the manufacturer. The most important data from the approval are listed.