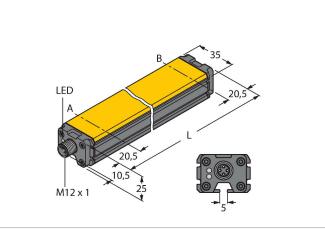


WIM200-Q25L-LI-EXI-H1141 Magnetically Actuated Linear Position Sensor



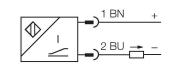
Technical data

-H1141
range IA - Bl
ning element
] kΩ
X Issue no. 2
Gb / II 2 D Ex ia II-
20mA, Pi = 675mW)



Features

Wiring diagram



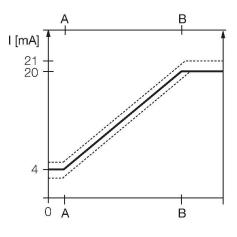
Functional principle

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.



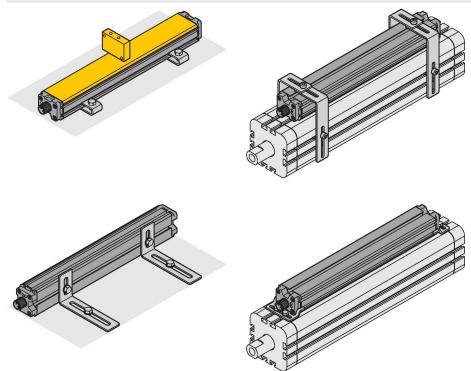
Technical data

Dimensions	241 x 35 x 25 mm
Housing material	Aluminum/plastic, PA6-GF30
Active area material	Plastic, PA6-GF30
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25+65 °C
	For explosion hazardous areas see in- struction leaflet
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	131 years



Mounting instructions

Mounting instructions/Description



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.

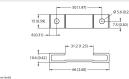
When used with an external positioning element, the sensor can either be mounted with the active face located opposite or laterally to the mounting surface. Drilling slots guarantee highest flexibility for fine adjustment.

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

M1-Q25L

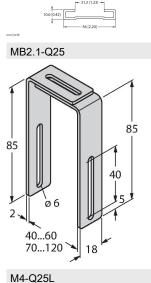


MB1-Q25

6901045 Mounting foot for linear position

sensors LI-Q25L; material: aluminum; 2 pcs. per bag

6901026 Mounting clip for linear position sensor Q25L; material Stainless steel; 2 pcs. per bag



M2-Q25L

6901046

Mounting foot for linear position sensors LI-Q25L; material: aluminum; 2 pcs. per bag

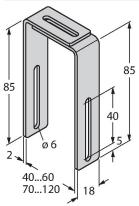
6901027

Mounting bracket for linear position sensors Q25L for mounting on pneumatic cylinders (40...60 mm); material: Stainless steel; 4 pcs. per bag

Mounting bracket and sliding block for linear position sensors LI-Q25L; material: Stainless steel; 2 pcs. per bag

6901048

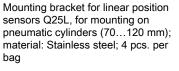
MB2.2-Q25(4PCS)

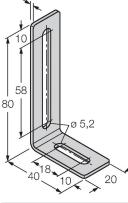


MN-M4-Q25

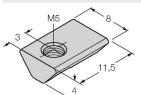
3.5

6901028





MN-M5-Q25

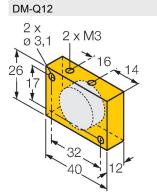


6901039

Sliding block with M5 thread for the backside profile of the LI-Q25L; material Stainless steel; 10 pcs. per bag

6900216

Actuation magnet, Ø 15 mm (Ø 3 mm), h: 6 mm; attainable switching distance 36 mm on BIM-(E)M12 magnetic field sensors or 32 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...4 mm



4,6

Actuator, rectangular, plastic, attainable switching distance 58 mm on BIM-(E)M12 magnetic field sensors or 49 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...5 mm

6900367

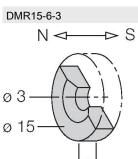
6901025

Sliding block with M4 thread for the

material: galvanized steel; 10 pcs. per

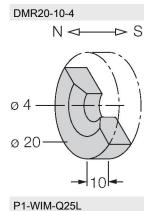
backside profile of the LI-Q25L;

bag



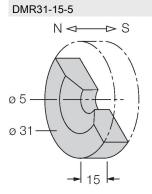
6





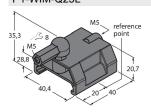
6900214

Actuation magnet; Ø 20 mm (Ø 4 mm), h: 10 mm; attainable switching distance 59 mm on BIM-(E)M12 magnetic field sensors or 50 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...4 mm



6900215

Actuation magnet, Ø 31 mm (Ø 5 mm), h: 15 mm; attainable switching distance 90 mm on BIM-(E)M12 magnetic field sensors or 78 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...5 mm

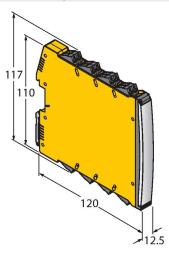


6901088

Guided positioning element for WIM-Q25L, inserted in the sensor groove.

Accessories

Dimension drawing



Туре	ID
IMX12-AI01-2I-2IU-H0/24VDC	75

7580305

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



Instructions for use

Intended use	This device fulfills the directive 2014/34/EC and is suit- ed 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 equip- ment for dust atmospheres)
Marking (see device or technical data sheet)	 (a) II 2 G Ex ia IIC T6 Gb and (a) II 2 D Ex ia IIIC T85 °C Db acc. to EN 60079-0, -11 (b) II 2 D and Ex ia IIIC T100°C Db acc. to EN61241
Local admissible ambient temperature	-25+66 °C
Installation/Commissioning	These devices may only be installed, connected and oper- ated 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 con- ditions.
	This device is only suited for connection to approved Exi cir- cuits according to EN 60079-0 and EN 60079-11. Please ob- serve the maximum admissible electrical values. After con- nection to other circuits the sensor may no longer be used in Exi installations. When interconnected to (associated) electri- cal 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 re- move possible blanking plugs of the cable glands or connec- tors only shortly before inserting the cable or opening the ca- ble 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.