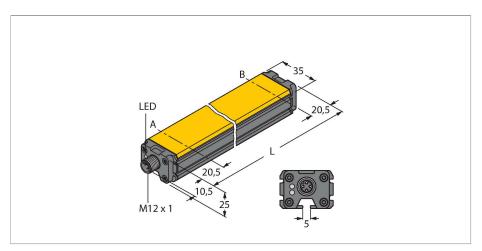


WIM200-Q25L-LI-EXI-H1141 Magnetically Actuated Linear Position Sensor





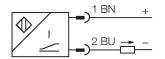
Туре	WIM200-Q25L-LI-EXI-H1141
ID	1536645
Measuring principle	Magnetic
General data	
Measuring range	200 mm
Resolution	0.2 mm/10 bit
Repeatability	≤ 0.1% of measuring range IA - BI
	depending on positioning element
Linearity deviation	≤ 1 %
Temperature drift	≤ ± 0.03 %/K
Electrical data	
Operating voltage	1430 VDC
Residual ripple	≤ 10 % U _{ss}
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes / Complete
Output function	4-pin, Analog output
Current output	420 mA
Load resistance current output	≤ [(U _B -14 V) / 20 mA]
Sample rate	200 Hz
Approval acc. to	KEMA 03 ATEX 1122 X Issue no. 2
Internal capacitance (C _i)/inductance (L _i)	0 nF/0 μH
Device marking	
	(max. Ui = 30V, Ii = 120mA, Pi = 675mW)
Mechanical data	
Design	Profile, Q25L



Features

- 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
- ■ATEX category II 2 G, Ex Zone 1
- ■ATEX category II 2 D, Ex Zone 21

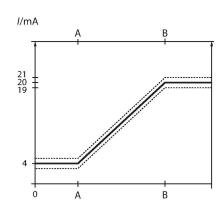
Wiring diagram



Functional principle

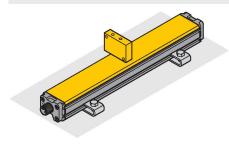
Linear position sensors operate on the Hall principle and accomplish simple control tasks. They provide an output signal proportional to the actuating magnet. The polarity of the magnet has no effect on the output signal. The outstanding features of these robust sensors are excellent repeatability, resolution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

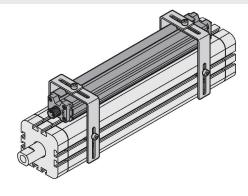
Dimensions	241 x 35 x 25 mm
Housing material	Aluminum/plastic, PA6-GF30
Active area material	Plastic, PA6-GF30
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25+65 °C
	For explosion hazardous areas see instruction leaflet
Vibration resistance	55 Hz (1 mm)
Shock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

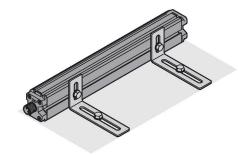


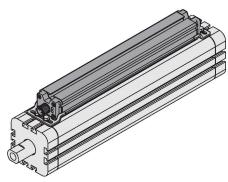
Mounting instructions

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.

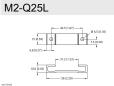
When used with an external positioning element, the sensor can either be mounted with the active face located opposite or laterally to the mounting surface. Drilling slots guarantee highest flexibility for fine adjustment.

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 (2 PCS)

6901045 Mounting foot for linear position sensors LI-Q25L; material: aluminum; 2 pcs. per bag



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

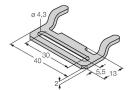
6901046

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

MB2.1-Q25(4PCS)

6901027

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



MB2.2-Q25(4PCS)

MN-M4-Q25

DM-Q12

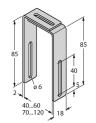
6901028

Mounting bracket for linear position sensors Q25L, for mounting on pneumatic cylinders (70...120 mm); material: Stainless steel; 4 pcs. per

M4-Q25L

6901048

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



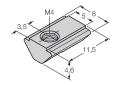
6901025

Sliding block with M4 thread for the backside profile of the LI-Q25L; material: galvanized steel; 10 pcs. per

MN-M5-Q25

6901039

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



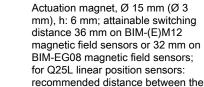
6900367

DMR15-6-3



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

6900216



sensor and magnet: 3...4 mm



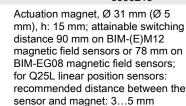
DMR20-10-4

6900214

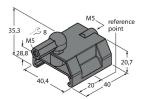
Actuation magnet; Ø 20 mm (Ø 4 mm), h: 10 mm; attainable switching distance 59 mm on BIM-(E)M12 magnetic field sensors or 50 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...4 mm

DMR31-15-5

6900215

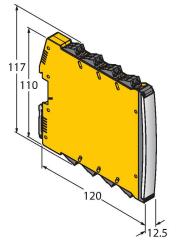






Accessories

Dimension drawing Туре IMX12-AI01-2I-2IU-H0/24VDC



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 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
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.