

Type designation	WIM125-Q25L166-LIU5X2-H1141
Ident-No.	1536631

Measuring range [AB]	125 mm	
Resolution	0,122 mm/10 bit	
Repeatability	≤ 0.1% of measuring range IA - BI	
	≤ depending on positioning element	
Linearity deviation	≤ 1 %	
Temperature drift	$\leq \pm 0.006 \% / K$	
Ambient temperature -25+75 °C		

Operating voltage	1530 VDC	
Residual ripple	≤ 10 % U₅₅	
Isolation test voltage	≤ 0.5 kV	
Short-circuit protection	yes	
Wire breakage/Reverse polarity protection	yes/ Complete	
Output function	4-pin, Analog output	
Voltage output	010V	
Current output	420 mA	
Load resistance voltage output	\geq 4.7 k Ω	
Load resistance, current output	$\leq 0.4 \; k\Omega$	
Sample rate	200 Hz	
Current consumption	< 50 mA	

Design	Rectangular,Q25L	
Dimensions	166 x 35 x 25 mm	
Housing material	Aluminium	
Active area material	Plastic, PA6-GF30	
Electrical connection	Connector, M12 × 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	131 years acc. to SN 29500 (Ed. 99) 40 °C	

Power-on indication LED Green

Measuring range display LED, yellow, positioning element in measuring range

- Rectangular, aluminium / plastic
- Many mounting possibilities
- Measuring range indication via LED
- Immune to external magnetic fields
- Extremely short blind zones
- 4-wire, 15...30 VDC
- Analog output
- 0...10 V and 4...20 mA
- Male connector, M12 x 1

Wiring Diagram

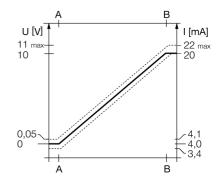




Functional principle

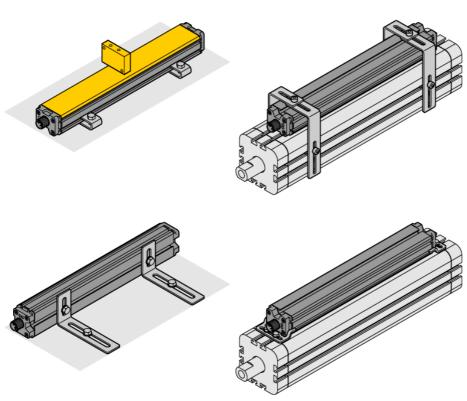
Linear position sensors operate on the Hall principle and accomplish simple control tasks. They provide an output signal proportional to the actuating magnet. The polarity of the magnet has no effect on the output signal. The outstanding features of these robust sensors are excellent repeatability, resolution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

Characteristic





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

Type code	Ident-No.	Description	
IM43-13-SR	7540041	Trip amplifier; 1-channel; input 0/420 mA or 0/210 V; supply of 2- or 3-wire transmitters/sensors; limit value adjustment via teach button; three relay outputs with one NO contact each; removable terminal blocks; 27 mm wide; universal voltage supply 20250 VUC; further Limit value indicators are described in our "Interface Technology" catalog.	104 89
M1-Q25L	6901045	Mounting foot for linear position sensor Q25L; aluminium; 2 pcs. per bag	31.2 05.6 50 7.5 15
M2-Q25L	6901046	Mounting foot for linear position sensor Q25L; aluminium; 2 pcs. per bag	31.2 0 4.5 10.6 42.5 7.5 15
MB1-Q25	6901026	Mounting clip for linear position sensor Q25L; material Stainless steel; 2 pcs. per bag	0 4,3
MB2.1-Q25	6901027	Mounting bracket for linear position sensors Q25L; mounting on pneumatic cylinders (4060mm); material: Stainless steel; 4 pcs. per bag	85 40,60 70,120 18



Accessories

Type code	Ident-No.	Description	
MB2.2-Q25 (4 PCS)	6901028	Mounting bracket for linear position sensors Q25L; mounting on pneumatic cylinders (70120mm); material: Stainless steel; 4 pcs. per bag	85 40 40 70120 18
M4-Q25L	6901048	Mounting bracket for linear position sensor Q25L; material Stainless steel; 2 pcs. per bag	58 80 40 40 40 20
MN-M4-Q25	6901025	Sliding block with M4 thread for the backside profile of the Q25L; material: galvanized steel; 10 pcs. per bag	3.5 M4 5 8 11.5 11.5 11.5
MN-M5-Q25	6901039	Sliding block with M5 thread for the backside profile of the Q25L; material Stainless steel; 10 pcs. per bag	3 M5 8 8 11,5
DM-Q12	6900367	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: 35 mm	2 x M3 2 3,1 2 x M3 2 6 17 1 17 1 17 1 10 1 10



Accessories

Ident-No.	Description	
6900216	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	N → → S 0 3 0 15 - 6 -
6900214	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	N → S 0 4 0 20
6900215	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	05 031
6901088	Guided positioning element for WIM-Q25L, inserted in the sensor groove.	35,3 M5 8 reference point 20,7 40,4 20 40
	6900214 6900215	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 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 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 G901088 Guided positioning element for WIM-Q25L, inserted in the

Wiring accessories

Type code	Ident-No.	Description	
RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	M12 x 1 o 15 5 14