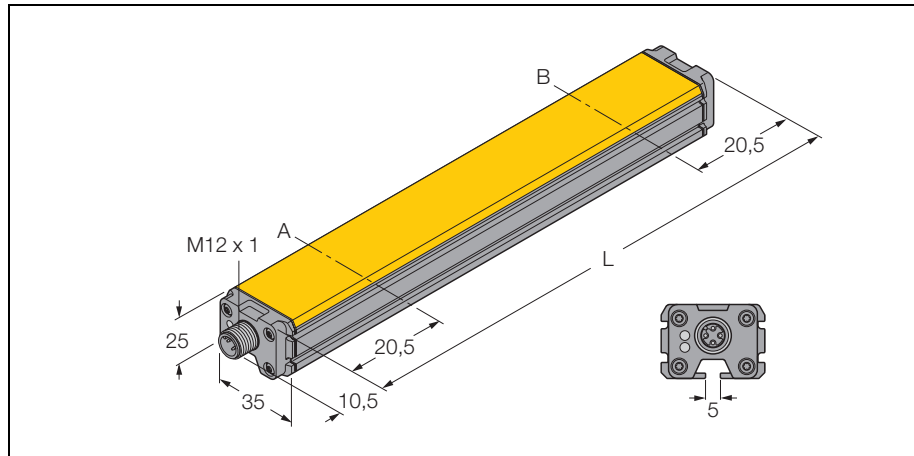
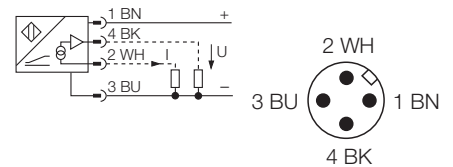


**Magnetically actuated
Linear displacement sensor
WIM100-Q25L141-LiU5X2-H1141**



- rectangular, aluminium / plastic
- Versatile mounting possibilities
- Measuring range indication via LED
- Completely immune to external magnetic fields
- Extremely short blind zones
- 4-wire, 15...30 VDC
- analogue output
- 0...10 V and 4...20 mA
- connector, M12 x 1

Wiring diagram

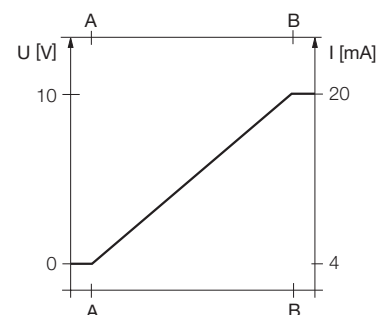


Type	WIM100-Q25L141-LiU5X2-H1141
Ident-No.	1536630
Measuring range [A...B]	100 mm
Repeatability	≤ 0.1% of the IA-BI measurement range ≤ depending on positioning magnet
Linearity deviation	≤ 1% of full scale
Temperature drift	≤ ± 0.006 %/K
Ambient temperature	-25...+ 70°C
Operating voltage	15... 30VDC
Residual ripple	≤ 10 % U _{ss}
No-load current I ₀	≤ 15 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage / Reverse polarity protection	yes / complete
Output function	4-wire, analogue output
voltage output	0... 10 V
current output	4... 20 mA
Load resistance voltage output	≥ 4.7 kΩ
Load resistance current output	≤ 0.4 kΩ
Output recovery time	≤ 15 ms
Housing	rectangular, Q25L
Dimensions	141 x 35 x 25 mm
Housing material	aluminium
Material active face	plastic, PC-GF20
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Measuring range display	LED, yellow, yellow flashing

Functional principle

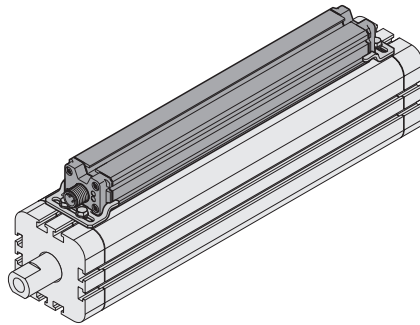
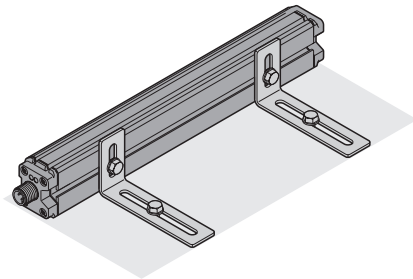
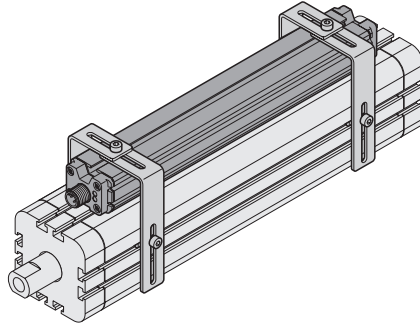
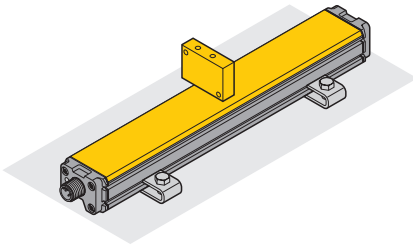
Linear displacement sensors, based on the Hall principle with analog output, accomplish simple control tasks. They provide an output signal which is proportional to the piston position of a pneumatic cylinder. The polarity of the magnet has no effect on the output signal. The outstanding features of these robust sensors are excellent repeat accuracy, resolution and linearity. Furthermore, excellent electro-magnetic capability and a broad temperature range.

Characteristic



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Mounting instructions



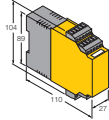
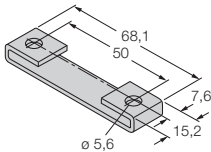
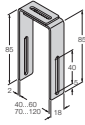
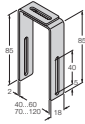
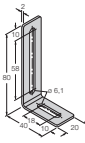
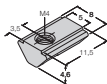
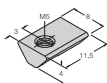
The comprehensive selection of accessories allows the sensor to be mounted in various positions. Opposite to the active face the sensor housing features a mounting groove, for which sliding blocks are available. Moreover lateral slot profiles can be used for mounting, too.

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

The mounting accessories for linear displacement sensors can be adjusted to the corresponding cylinder sizes. The stainless steel accessories guarantee safe and robust mounting, as well as highest flexibility with regard to the alignment of the sensors. .

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
IM43-13-SR	7540041	limit value monitor; single channel; input 0/4...20 mA or 0/2...10 V; supply of 2- or 3-wire transmitters/sensors; limit value adjustment via teach button; three relay outputs with one normally open contact each; removable terminal blocks; 27 mm wide; universal voltage supply 20...250 VUC; further limit value monitors are described in our "Interface Technology" catalogue.	
MB-Q21	6900279	Standard mounting accessories for linear displacement sensors Q25L and Q21; material stainless steel, 1 psc per bag	
MB1-Q25	6901026	Mounting clip for linear displacement sensor Q25L; material stainless steel; 2 pcs. per bag	
MB2.1-Q25	6901027	Mounting bracket for linear displacement sensors Q25L for mounting on pneumatic cylinders (40...60mm); material stainless steel; 4 pcs. per bag	
MB2.2-Q25	6901028	Mounting bracket for linear displacement sensors Q25L for mounting on pneumatic cylinders (70...120mm); material stainless steel; 4 pcs. per bag	
MB3-Q25	6901029	Mounting clip for linear displacement sensor Q25L; lateral mounting; material stainless steel; 2 pcs. per bag	
MN-M4-Q25	6901025	Sliding block with M4 thread for the backside profile of the Q25L; material brass; 10 pcs. per bag	
MN-M5-Q25	6901039	Sliding block with M5 thread for the backside profile of the Q25L; material stainless steel; 10 pcs. per bag	

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Type code	Ident-No.	Short text	Dimension drawing
MN-C	6901024	Sliding block for T-groove cylinder 5-8mm; 1 pcs. per bag	
DM-Q12	6900367	actuation magnet; rectangular plastic; sensing range 58 mm on BIM-(E)M12 sensors resp. 49 mm on BIM-EG08 sensors; in combination with Q25: recommended distance between sensor and magnet: 3 ... 5mm	
DMR15-6-3	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 ... 4mm	
DMR20-10-4	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 ... 4mm	
DMR31-15-5	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 ... 5mm	