## **Magnetostrictive Linear Position Sensor**

Outside cylinder Start/Stop

L5 - BXXXX-14



#### **Profile**

- · Outside installation, easy to use
- Absolute position output, without zero operation
- · Contactless sensing with highest durability
- · Start/ Stop pulse
- Design of low power consumption, reduce the temperature drift

# (€ ® ♥ Start/Stop

#### **Features**

- •Status LEDs for indicating operating status and diagnostics
- · Modular design, easy repairing

Parameter of measurement				
Measuring Lenght	25~3500mm			
Output	Start/ Stop Pulse			
Resolution	0.1 mm / 0.01 mm / 0.005 mm (Depend on controller)			
Linearity	< ±0.01% F.S. (Min.±50μm)			
Repeatability	< ±0.001% F.S. (Min.± 1μm)			
Frequency response	Depend on Measuring range			

Electrical characteristics			
Connection	Cable or M16,6 pinsConnector		
Voltage	24VDC (-15 / +20%)		
Current	< 60mA (Depend on Measuring range)		
Polarity protection*	Max30VDC		
Overvoltage protection*	Max. 36VDC		
Electric strength	500V (DC ground to machine ground)		
Error indicator	Red and Green LED indicator		

<sup>\*</sup> Max. 5mins

- Linearity deviation < ±0.01% rated length
- Repeatability < ±0.001% rated length

Design & Material		
Sensor head	Aluminium alloy	
Protective shell	Aluminium alloy	
Mounting holder	304LStainless	

Installation & Accessories				
Installation direction	Any orientation			
Installation	Mounting holder, M5×20			
Magnet	Round rail slide magnet L5-0000-ACMB-0003, Not included in delivery			
	Square floating magnet L5-0000-ACMB-0001, Not included in delivery			
	U-Magnet L5-0000-ACRI-0005, Not included in delivery			
Mounting holder	L5-0000-ACMT-0002, Not included in delivery(At lease two)			
Connector	E1-2206-0100, Not included in delivery			

Operation condition	ı
Magnet speed	Any
Operating temperature	-40°C ~ +85°C
Humidity/Dew point	R.H.90%, No Condensation
Temperature coefficient	< 30ppm/°C
Protection Level	IP67

Sensor	Sensor diagnostic display				
	Indicator		Description		
	Green	ON	Normal function		
	Green	Flash	Programming mode		
	Red	Flash	Magnet out of measuring range		
		Red	ON	Magnet not detected or damaged magnet	

#### Wiring

Signal	Ub	GND	Start (+)	Start (-)	Stop (+)	Stop (-)
Cable(color)	Brown	White	Yellow	Green	Pink	Gray
M16, 6 Pins Connector	5	6	3	4	2	1

M16, 6 pins Pin top view (sensor)



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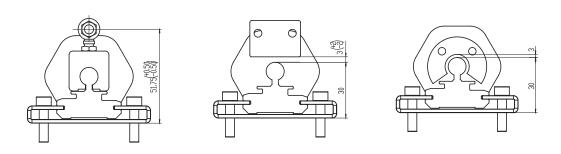
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### Outside cylinder Start/Stop

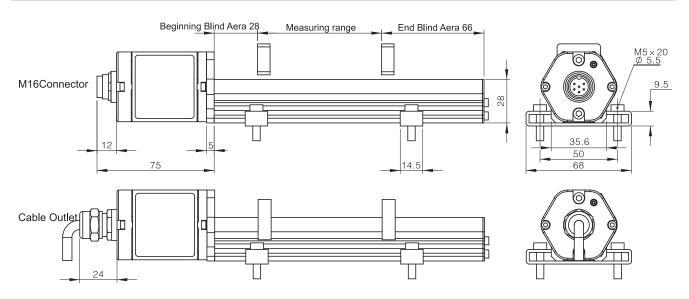
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Ordering example Outside Cylinder	L5 - B 0 <u>1 0 0</u> - <u>1</u>	4 1 5 - STSP 0 P - S
Measuring range 0100 = 100 mm Max.3500 mm in 5-mm increments	Operation Voltage 1 = 24 VDC	Output STSP = Start / Stop Pulse Signal
Output  14 = Start / Stop pulse	<ul> <li>wiring</li> <li>= M16, 6 pinsConnector</li> <li>PXX = Standard cable outlet, XX meters</li> <li>TXX = High temperature cable outlet, XX meters</li> </ul>	Blind Aera (Bignning+End) S = 28 + 66 (mm)

#### Installation



#### **Dimensions**



Note: Position measurement is via floating magnets travelling along the sensing rod without any mechanical contact. Square floating magnet: Max.Horizontal offset upto ±3mm, Max.Vertical distance upto 5mm.

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