Magnetostrictive Linear Position Sensor

Inside cylinder Profibus DP

L5 - AXXXX-13



Profile

- · Robust, oil resistance
- · Absolute position output, without zero operation
- · Contactless sensing with highest durability
- High resolution, upto 1 µm / can be set via GSD file
- Design of low power consumption, reduce the temperature drift
- Nod address and resolution can be programmed









Features

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

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

Parameter of measurement				
Measuring Lenght	25~7600mm			
Output	Profibus-DP (EN - 50 170) 12Mbit/s 1 µm / Can be modified via GSD file < ±0.01% F.S. (Min.±50µm) < ±0.001% F.S. (Min.±1µm)			
Baud rate				
Resolution				
Linearity				
Repeatability				
Update time	0.5ms (F.S.<1m) 1.0ms (1m <f.s.<2m)< td=""></f.s.<2m)<>			
	2.0ms (2m <f.s.<4m) (4m<f.s.<7.6m)<="" 4.0ms="" td=""></f.s.<4m)>			

Electrical characteristics			
Connection	Dual M16 or Dual M12+M8 Connector		
Voltage	24VDC (-15 / +20%)		
Current	< 50mA (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		

^{*} Max. 5mins

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Wiring	D 114400
wiinig	Dual M16Connector

Signal	Ub	GND	A(Bus)	B(Bus)	DGND*	VP*
M16, 6 Pin Connector	5	6	1	2	3	4

Dual M12Connector+M8Connector

Signal	Ub	GND	A(Bus)	B(Bus)	DGND*	VP*
M12, 5 Pin DP Connector	_	_	2	4	3	1
M8, 4 Pin power Connector	1	3	_	_	_	_

^{*} DGND and VP Only available for terminal

Dual M16, 6 pins Pin top view (sensor)



Male



Female

Dual M12Connector+M8Connector Pin top view (sensor)







Design & Material		
Sensor head	Aluminium alloy	
Sensor stroke	304LStainless	
Mounting holder	304LStainless	

Installation & Ac	cessories
Installation direction	Any orientation
Installation	Threaded flange M18×1.5 or on demand
Magnet	Ring MagnetsL5-0000-ACRI-0001, Not included in delivery
Antimagnetical Spacer	Antimagnetical SpacerL5-0000-ACMT-0001, Not included in delivery
Connector	Dual M16Connector, Not included in delivery:
	Male E1-2106-0110; Female E1-2206-0100
	or Dual M12+M8Connector, Not included in delivery:
	M12Male E1-1105-0112
	M12Female E1-1205-0102
	M8 Female E1-6204-0010
Terminal resistance	M16 E1-PDP0-TR01
	M12 E1-PDP0-TR00

Operation condition				
Magnet speed	Any			
Operating temperature	-40°C ~ +85°C			
Humidity/Dew point	R.H.90%, No Condensation			
Temperature coefficient	< 30ppm/°C			
Protection Level	IP67			
Pressure rating	35MPa (Continuously) / 70MPa (Peak value)			

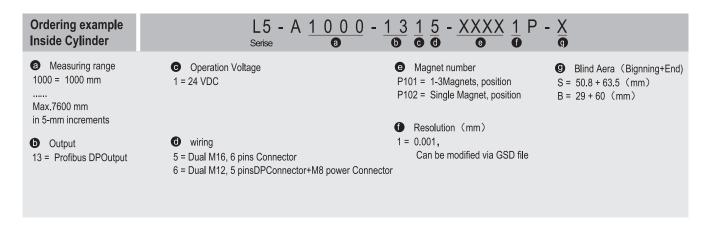
sor diagnostic display						
Tal.	Green	Red	Description			
	ON	_	Normal function			
		ON	Magnet not detected or damaged magnet			
	_	Flash	Magnet out of measuring range			
	Flash	_	Programming mode			
	Flash	Flash	Communication error			

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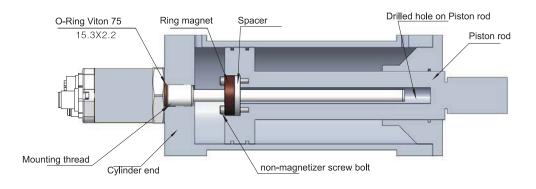


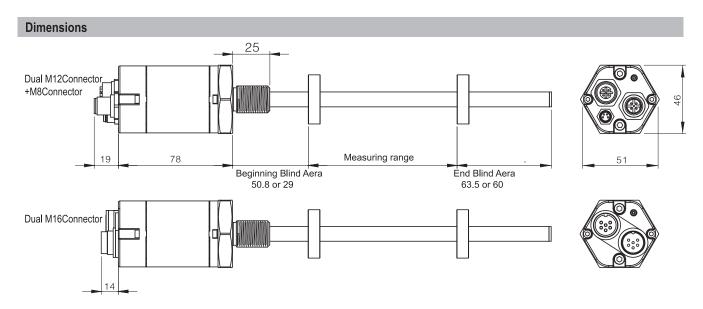
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Installation





Note: L5 Serise product compression rod can be conveniently separated with the electronic head (two M4 x 59 screw), in does not leak under pressure to achieve rapid replacement, the pressure rod can become cylinder permanent sections.

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