

# Magnetostrictive Linear Position Sensor

Mobile Hydraulic Analog

L5 - GXXXX-1A



## Profile

- Absolute position output, without zero operation
- Compact design, sensor head  $\phi 48 \times 23$
- Standard in-cylinder mobile sensor for cylinder



## Features

- Compact design for mobile hydraulic
- Robust, oil resistance
- Contactless sensing with highest durability

Parameter of measurement	
Measuring Length	50-2500mm
Output	4-20mA (Min./Max. Load: 0/500 $\Omega$ ) 0-10V (Min. Load > 5k $\Omega$ )
Resolution	16 bit D/A
Linearity	< $\pm 0.04\%$ F.S. (Min. $\pm 100\mu\text{m}$ )
Repeatability	< $\pm 0.005\%$ F.S.
Update time	> 500Hz

Design & Material	
Sensor head	Aluminium alloy
Protective rod	304L Stainless

Installation & Accessories	
Installation direction	Any orientation
Installation	Threaded flange M18x1.5 or on demand
Magnet	L5-0000-ACRI-0001, Not included in delivery

Electrical characteristics	
Connection	Cable
Voltage	24VDC (-15% / +20%)
Current	< 50mA (depend on Measuring range)
Polarity protection*	Max. -30VDC
Overvoltage protection*	Max. 36VDC
Electric strength	500V (DC ground to machine ground)
Error indicator	No

Operation condition	
Magnet speed	Any
Operating temperature	-40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
Humidity/Dew point	R.H.90%, No Condensation
Temperature coefficient	< 50ppm/ $^{\circ}\text{C}$
Protection Level	IP67
Pressure rating	35MPa (Continuously) / 70MPa (Peak value)

\* Max. 5mins

## Wiring

Signal	Ub	GND	Analog output	Signal GND	(+) Comm.	(-) Comm.
Cable (Color)	Brown	White	Gray	Pink	Yellow	Green

