

Magnetostrictive Linear Position Sensor

Square housing / slide & floating magnet Start/Stop pulse

L5 - HXXXX-14



Profile

- Outside installation, easy to use
- Absolute position output, without zero operation
- Contactless sensing with highest durability
- Design of low power consumption, reduce the temperature drift
- Slide magnet with joint bearings, can withstand large lateral stress

CE UL RoHS **Start / Stop**

Features

- Start/ Stop pulse
- Floating magnet, maximum vertical distance 15mm

- Linearity deviation < $\pm 0.02\%$ rated length
- Repeatability < $\pm 0.002\%$ rated length

Parameter of measurement

Measuring Length	50~3000mm
Output	Start/ Stop pulse
Resolution	0.1 mm / 0.01 mm / 0.005 mm(depend on controller)
Linearity	< $\pm 0.02\%$ F.S.(Min. $\pm 60\mu\text{m}$)
Repeatability	< $\pm 0.002\%$ F.S.
Frequency response	Depend on Measuring range

Design & Material

Sensor head	Inside
Sensor stroke	Aluminium alloy
Mounting holder	304LStainless

Installation & Accessories

Installation direction	Any orientation
Installation	Mounting holder, M5x20Specified screw
Magnet	Flat rail sliding block magnet L5-0000-ACMB-0004, Not included in delivery Trapezoid Floating MagnetsL5-0000-ACMB-0005, Not included in delivery Rectangle Floating MagnetsL5-0000-ACMB-0006, Not included in delivery
Mounting holder	L5-0000-ACMT-0002, Not included in delivery(At least two)
Connector	E1-1208-0101, Not included in delivery

Electrical characteristics

Connection	Cable or M12,8 pinsConnector
Voltage	24VDC (-15 / +20%)
Current	< 60mA (depend on Measuring range)
Polarity protection*	Max.-30VDC
Overvoltage protection*	Max. 36VDC
Electric strength	500V (DC ground to machine ground)
Error indicator	Red and Green LED indicator

* Max. 5mins

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	IP65

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	Gray	Pink	Red
M12, 8 Pins Connector	7	8	1	2	3	4

M12, 8 pinsPin top view (sensor)



