

Magnetic Sensing Head Linear Absolute SLA2-R1Y1W10E2C1L10



resolution 1 μm , interface SSI
programmable, for
10mm scale, Analog Signal sin/cos, cable
length: 10 m without connector; axial

Technical characteristics

- Magnetic sensing head with 14 Bit for measuring absolute positions
- For linear scales
- Resolution up to 1 μm
- Measuring length up to 30 m
- Synchron serial interface (SSI)

Benefits

- Non-contact, quick position measurement
- Precise
- Stable metal housing
- A variety of connectors with adaptable cable lengths
- No wear from usage
- High measuring distance tolerance
- Resistant to dust, cooling lubricant, emulsion, oil, etc.

Electrical and mechanical parameters

Incremental signal	Sine 1 Vpp
Resolution incremental signal	
Signal period	2 mm
Interface	SSI
Resolution of absolute measurement	1 μ m
Repeatability	\pm 1 increment
Measuring length	30 m
Protection class	IP 67 (EN 60529)
Vibration resistance	200 m/s ² (EN 60068-2-6)
Operating temperature	0 . +50 °C
Storage temperature	-20.+70 °C
Relative humidity	1
Voltage	6 . 28 VDC \pm 5%*
Current consumption	150 mA maximal (R = 120 Ohm)
Maximum cable length	10 m
Maximum travelling speed	10 m
Output signal	Analogue Sin/Cos
Connector	

Output signals

Interface	SSI
Number of data bits	29
Data format	binary
Parity	No
Error bit	No
Output circuit	
Clock frequency	0.1 . 1.2 MHz
Tc	12 . 38 μ s
Signal	A, /A, B, /B
Signal amplitude	
Reference voltage U ₀	~ 2,5 V
Phase shift A and B	90° \pm 10° electrical
Maximum frequency (at 2 m/s)	100 kHz

Cable assignment

V+	red
V-	blue
A	green
/A	orange
B	white
/B	light blue
CK	brown
/CK	yellow
D	pink
/D	grey
SCH	

Dimensions

Mounting tolerance

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Ordering Code

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<http://www.bogen-electronic.com/en/magnetic-measurement-solutions/sensing-heads/absolute/linear/00051138.html>

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