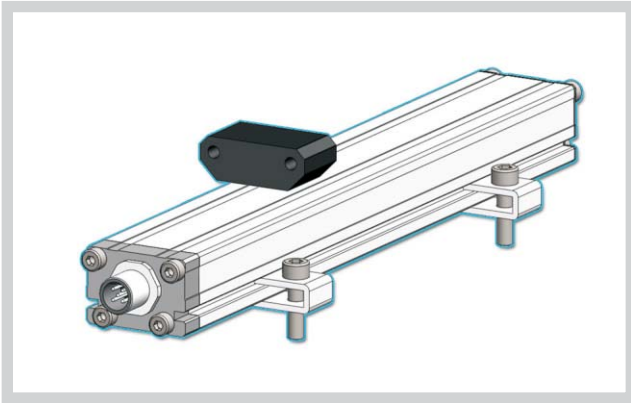


CL Series | analog output: 0~10V



Product features

- External installation, Easy to use
- Compact structure, Installation height < 27mm
- Absolute position output, No need to return to zero
- Non-Contact Sensing with Highest Durability
- Repeatability $\pm 0.002\% \text{ F.S.}$
- Suspended magnet, The allowable maximum vertical clearance can reach 6mm

The height of CL series products after installation is only 27mm, meeting the needs of limited installation space. The maximum allowable working distance of supporting floating magnet can reach 6mm, suitable for NC equipment with big vibration. External installation and replacement by the convenience.

Technical Data

Project name	Data/Index
Measurement parameters	
Measuring range	50~2000mm
Out put	0~10V (min > 5k Ω)
Resolution	16 bit
linearity	$\pm 0.02\% \text{ F.S.}$
Repeatability	$\pm 0.002\% \text{ F.S.}$
Update time	>1.5kHz

Project name	Data/Index
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Design, material

Sensor head	built-in
Sensor stroke	Aluminium
Mounting flange	AISI 304

Installation

Mounting direction	any
Mounting mode	Screw mounted, M5x20 or User customization
Position magnet	K-magnet

Operating conditions

Magnet speed	any
Operating temperature	- 40°C ~ +85°C
Dew point/humidity	90%rel.humidity, no condensation
Temperature coefficient	<math>< 30 \text{ ppm}/^\circ\text{C}</math>
Protection	IP65

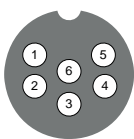
Electrical characteristics

Leading-out mode	cable outlet or 6 pin connector
Input voltage	24VDC (-15/+20%)
Current drain	<math>< 50 \text{ mA}</math> (With the range of variation)
Polarity protection	up to -30VDC
Overvoltage protection	up to 36VDC
Electric strength	500V (DC ground to machine ground)

Electrical connection

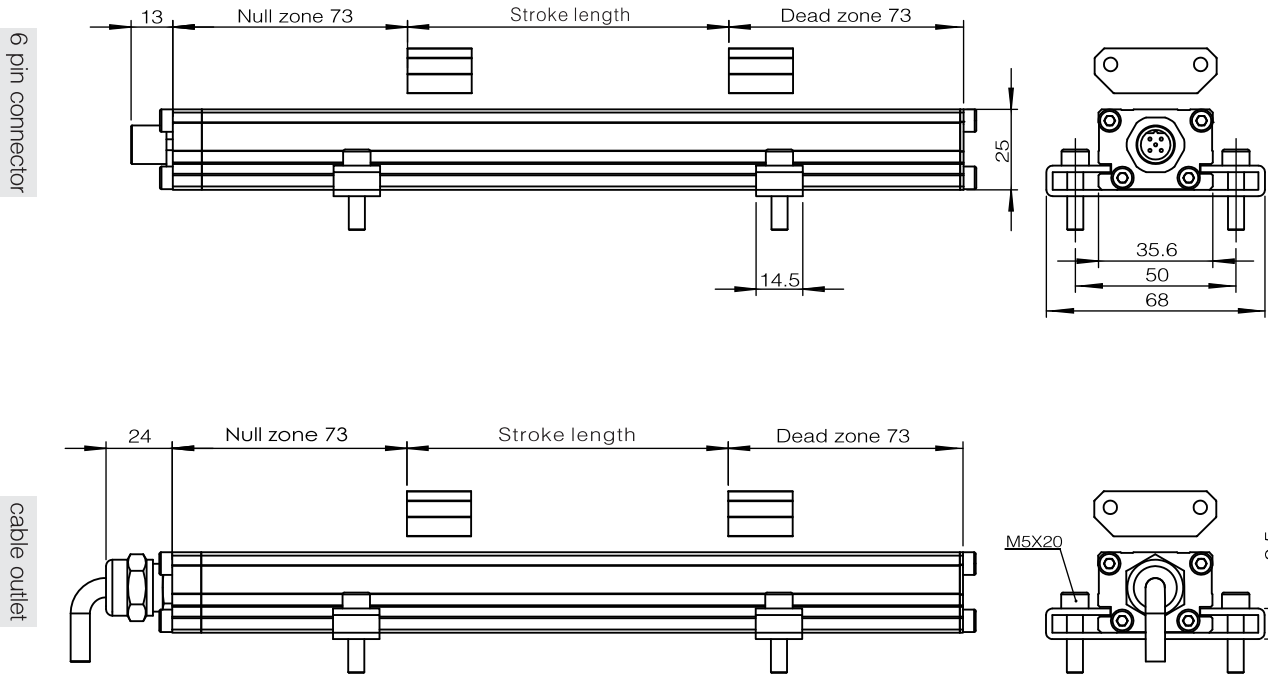
Analog output pin definition

Pin	Cable	Function
1	Grey	(+) Output
2	Pink	(-) Output
3	Yellow	Prog.
4	Green	Com.
5	Brown	+24Vdc
6	White	DC GND (0 Vdc)



Male insert sensor plug rear of cable connector

Outline dimensions



Explain: (1)The quantity of fixed clamping pieces required in installation should correspond to the range. The suggestion is that adding a clamping piece every 500mm.
 (2)The position measurements of CL series products use floating magnet: It is directly installed on the moving parts, not contacting the sensor. The biggest allowable lateral migration can reach 3mm and the biggest allowable vertical clearance can reach 6mm.

Style guide

