WINDPOWER

Transducers IK1-D

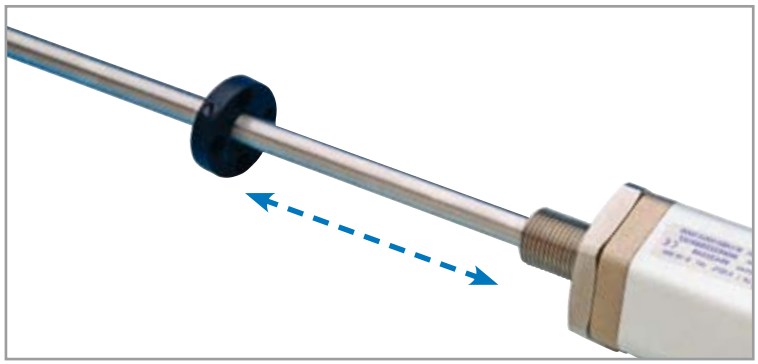
MAGNETOSTRICTIVE DISPLACEMENT TRANSDUCERS

- Earth moving
- Nautical sector
- Level checks

Magnetostrictive technology
The new generation of potentiometric transducer is the magnetostrictive displacement transmitter, in which there is no contact between the transducer and the mobile cursor.
The measurement element, a copper wire passing through a special alloy tube, measures the interaction between mechanical waves and electromagnetic fields.
A current pulse is transmitted along the tube from the sensor head< interaction between the current pulse and the magnetic field generated by the displacement magnet creates torsion that is transmitted along the wave/guide rod in the form of a mechanical wave. By measuring the time between transmission of the first signal and detection of torsion on the rod, you can calculate the exact position of the magnet.

There i no direct contact between moving parts, so the transducer is not subject to wear. This also guarantees greater precision and repeatability.

Model	IK1-D
Useful electrical stroke range	50..4000 mm
Independent linearity	±0.02%
Resolution	Max. 10µm
Work temperature range	-30..+70°C
Maximum displacement speed	10 m/sec
Interface	Digital
Available	1 cursor (PWM) 1 cursor (start/stop)
Protection level	IP67
Installation	Flange



Specifically designed for insertion in hydraulic and pneumatic cylinders thanks to small size of rod and magnet.

Analog or digital interface for direct link to PLC or other standard electronics. Standard flange for quick and simple installation.

L&S WPD27/06.08.GB

Lund & Sorensen A/S

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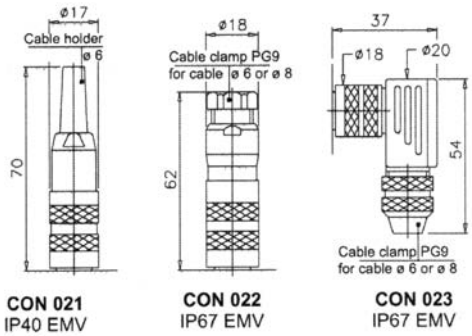
Transducers IK1-D Accessories

CONNECTORS

For versions IK1 B only 6-pin DIN 45322 output
Non-isolated

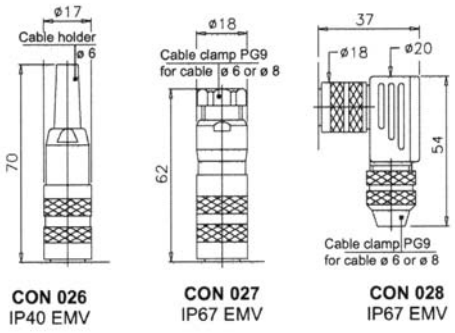


CON 021 IP40 EMV
CON 022 IP67 EMV
CON 023 IP67 EMV

Connector extraction length 10 mm

CONNECTORS

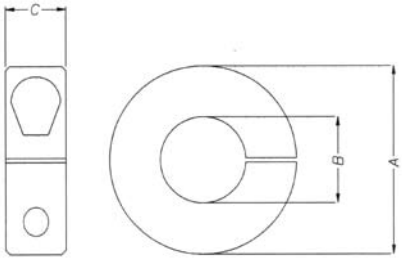
For versions IK1 C only 8-pin DIN 45326 output
isolated



CON 026 IP40 EMV
CON 027 IP67 EMV
CON 028 IP67 EMV

Connector extraction length 10 mm

FLOAT STOP PKIT036

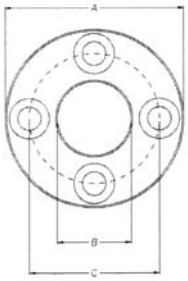


DIMENSIONS
Diameter A = 22 mm
Diameter B = 10.5 mm
Diameter C = 7.2 mm
Thickness = 7.9 mm

MATERIAL
AISI 316 steel

ENCLOSURES
N°1 Washer AISI 316 D3 code: **MIM518**
N°1 Screw AISI 316 M3x8 code: **MIM849**

FLOATING CURSORS

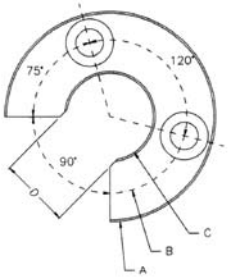


PCUR022

DIMENSIONS
Diameter A = 32.8 mm
Diameter B = 13.5 mm
Diameter C = 23.9 mm
Thickness = 7.9 mm

MATERIAL
Aluminium

ENCLOSURES
N°8 Brass nuts M4
N°8 Brass washers D4
N°8 Brass screws M4x25

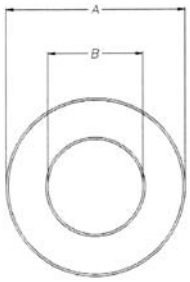


PCUR023

DIMENSIONS
Diameter A = 32.8 mm
Diameter B = 13.5 mm
Diameter C = 23.9 mm
Thickness = 7.9 mm

MATERIAL
Aluminium

ENCLOSURES
N°4 Brass nuts M4
N°4 Brass washers D4
N°2 Brass screws M4x25

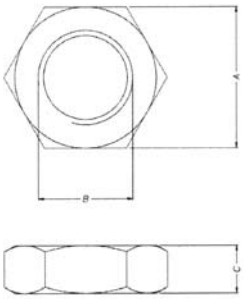


PCUR024

DIMENSIONS
Diameter A = 25.4 mm
Diameter B = 13.5 mm
Thickness = 7.9 mm

MATERIAL
Aluminium

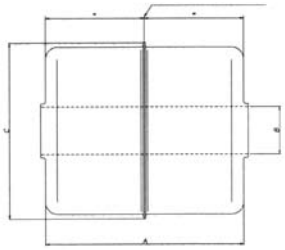
HEXAGON LOCK NUT



MODEL	FLA002	FLA003
Hight A	CH 27	
Thread B	M 18 x 1.5	3/4" - 16 UNF
Hight C mm	9	
Material	AISI 316 steel	

FLOATING CURSORS FOR LIQUIDS

HEIGHT DETECTION POSITION



MODEL	PCUR026	PCUR027
Lenght A mm	52.4	
Diam. B (Hole) mm	12	15
Diam. C mm	42	
Material	AISI 316 steel	

Note: The supply for cursors PCUR026 and PCUR027 includes float stop kit PKIT036.