

UNGÜLTIG

Position Transducers
non-contacting
absolute for
integrated mounting

Series TLI



Special features

- non-contacting measuring system, INDRES
- for integration in PNEUMA-TIC hydraulic cylinders
- accuracy up to 0.15 %
- resolution better than 0.01 mm
- operating speed up to 10 ms^{-1}
- compressive strength 300 bar, compression peaks up to 500 bar
- screw flange M 18x1,5 or 3/4-16UNF, plug-in flange Ø 48 mm (other flanges on request)
- optionally plug or cable connection

This position transducer can be integrated directly into the pressure chamber of cylinders, thereby providing compact and cost-effective position assessments.

The non-contact measurement method provides the advantages of potentiometric systems, while being virtually wear-free.

A moveable resonator probe concentrates the flux of an electromagnetic field. Through the specific resistance values in the location of the resonator probe, the induced voltage is divided following the ratio metric principle.

The output signal indicates the pick-up position and is directly proportional to the displacement.

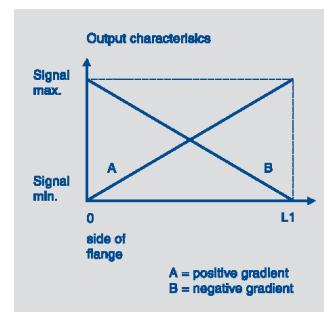
In addition to the standard configuration, the modular construction provides customer specific terminal flanges and mounting variations.

Please find further details of the inductive-resistive measuring system (INDRES) in our homepage www.novotechnik.de as well as in our main catalog under "Technical Information".

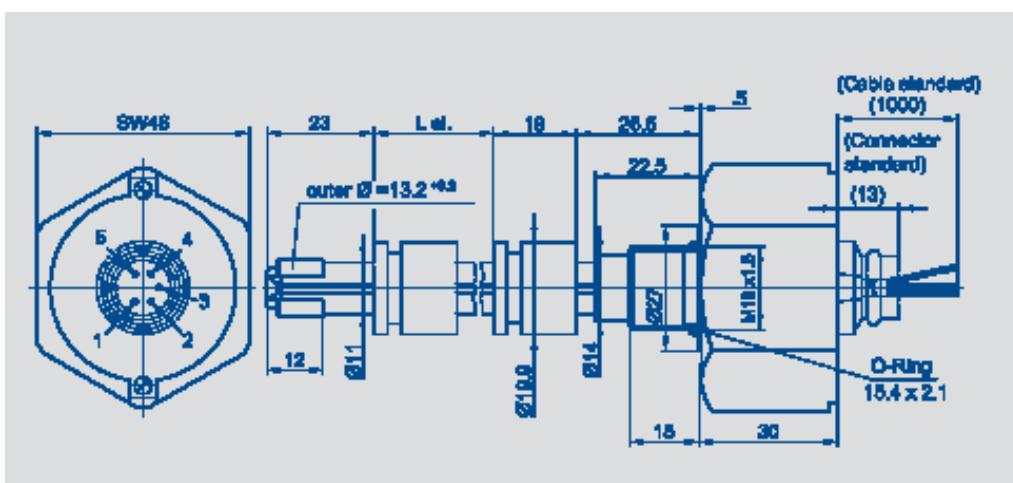
Description

Dimensions	see drawing
Connnection flange	stainless steel
Guide rail	plastic, reinforced
Probe carrier	plastic
Slider housing	plastic
Electrical connections	conductors with 3 lead wires, shielded cable with 4 lead wires 4 pin plug connection
Electronics	SMD, sealed

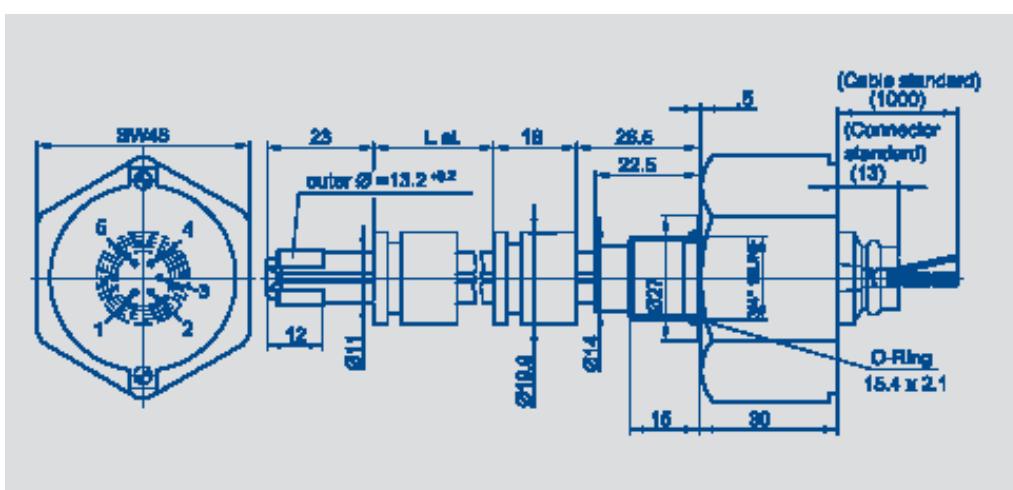
	Plug	Cable
Ground	Pin 1	brown
Current output	Pin 2	white (optional)
Voltage supply	Pin 3	green
Voltage output	Pin 4	yellow



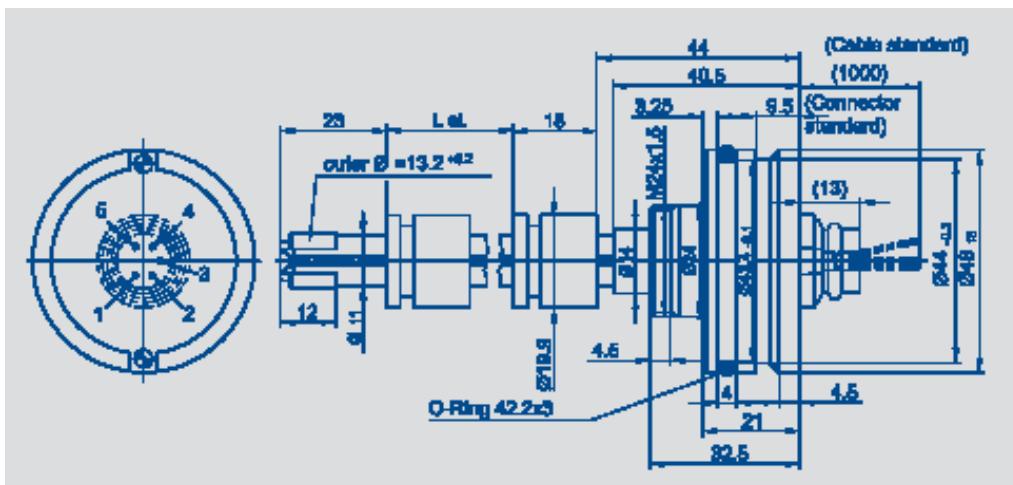
Screw flange M 18x1,5



Screw flange 3/4"-16UNF



Plug-in flange Ø 48 mm



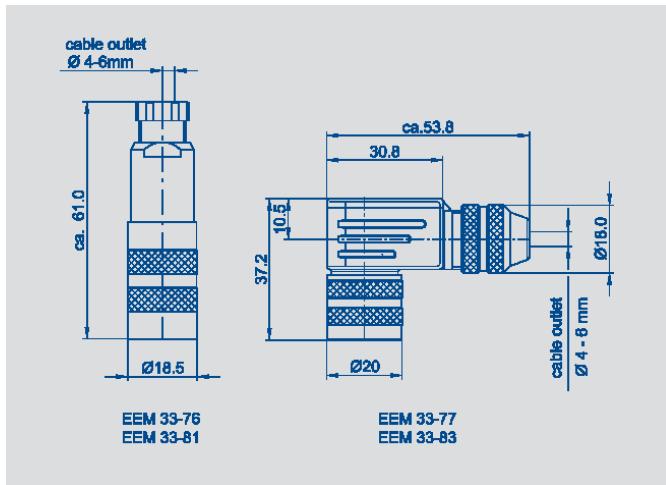
Attention

Please pay attention to the installation drawings!
Download on our homepage
www.novotechnik.de, products.

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Ordering specifications

T	L	I	0	5	0	0	1	0	1	1	1	1	2	0	1						
Series		Defined electrical range Standard: 0050 up to 600; specified in mm; other lengths in 10 mm increments								Mechanical specifications 101 Standard: plug-in flange Ø 48 mm 102 Alternative: screw flange M18 x 1.5 103 Alternative: screw flange 3/4"-16 UNF											
Operating voltage								Output signal / supply voltage 5 VDC (Ub5) 1 Standard: 5 % ... 95 % of current supply													
5 Standard: 5 VDC mobil electronic (4.75 VDC ... 5.25 VDC)								Output signal / supply voltage 12/24 VDC (Ub6) 5 Standard: 0.25 VDC ... 4.75 VDC													
6 Option: 12/24 VDC mobil electronic (8.0 VDC ... 32.0 VDC)								Output signal / supply voltage 24 VDC (Ub7) 1 Standard: 0 VDC ... 10 VDC 2 Optional: 4 mA ... 20 mA													
7 Standard: 24 VDC mobil electronic (16.0 VDC ... 32.0 VDC)								Output characteristics 1 Standard: positive gradient, seen from flange													
Output signal / supply voltage 5 VDC (Ub5)								Electrical characteristics 101 Standard: 4-pin connector 201 Alternative: NT standard cable 1 m 203 Optional: NT standard cable 3 m 205 Optional: NT standard cable 5 m 301 Optional: NT conductor with lead wires 85 mm 302 Optional: NT conductor with lead wires 120 mm													

Recommended accessories

Connector Binder EEM 33-88,
Art.No. 005633, protection
class IP67

Connector Binder EEM 33-89,
Art.No. 005634, protection
class IP67

Subject to changes