

Inductive
Displacement
Sensor
induNCDT



IWS-4-M-CA3-U

Non-Contact Inductive Displacement Sensor

The induNCDT displacement sensors are used for non-contact measurement of displacements, oscillations and revolutions.

The complete signal processing is integrated into the sensor. The output voltage is direct proportional to the measuring range.

The linearity is $\pm 2\%$ over the whole measuring range.

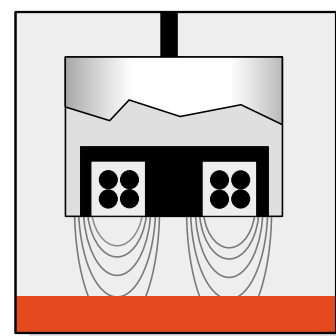
Technical Data

Model	Ferro Alu	IWS-4-M-CA3-U IWS-3-A-CA3-U
Measuring principle		inductive
Measuring range	Ferro Alu	0.5 - 4.5 mm (.02 - .18 ") 0.5 - 3.5 mm (.02 - .14 ")
Reference distance		0.5 mm (.02 ")
Target-diameter	min	18 mm (.7 ")
Linearity		$\pm 2\%$ FSO
Sensitivity		1 V / mm
Resolution		1 μ m
Signal output	Ferro Alu	0.5 - 4.5 V 0.5 - 3.5 V
Frequency response		1 kHz
Operating temperature		0 to +85 °C
Temperature stability		0.06 % / °C FSO
Power supply		+12 to +18 VDC / 7 mA
Load		min. 5 kOhm
Protection class		IP 65
Sensor cable	Length	3 m (10 ft. with screening)

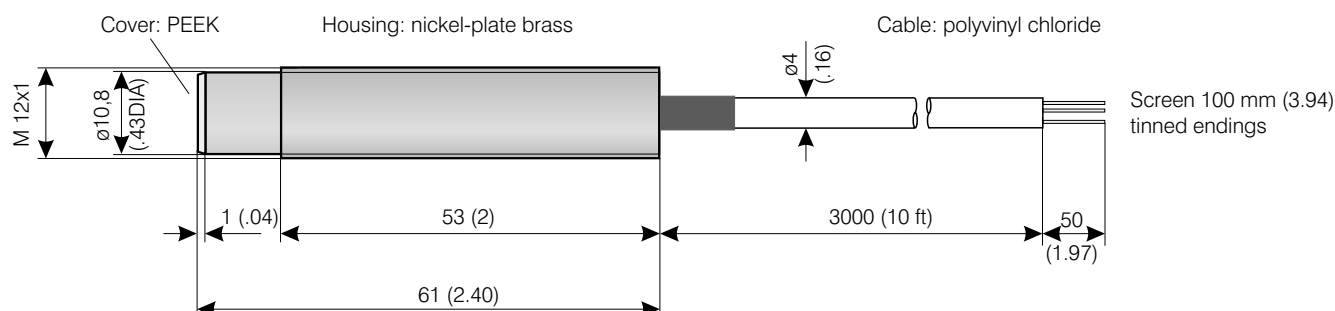
FSO = Full Scale Output

Reference material: Steel 1.0037 / Alu

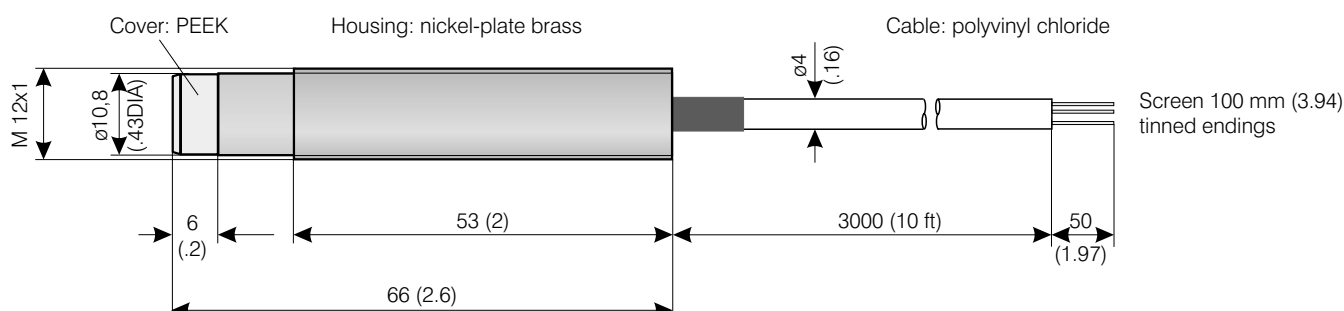
Inductive Measuring Principle



induNCDT Dimensions in mm (inch)



Sensor IWS-4-M-CA3-U for ferro-magnetic target



Sensor IWS-3-A-CA3-U for aluminum target

Connection	
Ground	black
Power supply (+)	red
Signal output	brown
Screen	green-yellow

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