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Business Hours: Monday - Friday 8:30AM - 6:15PM

More Precision

wireSENSOR // Draw-wire displacement sensors



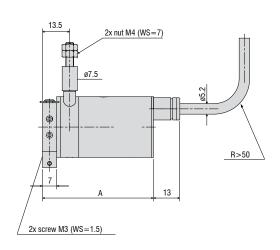
Robust miniature sensors

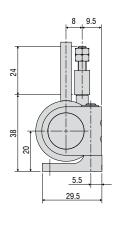
wire SENSOR MPM analog

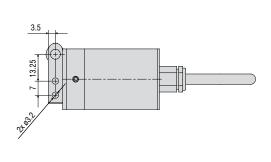


- Extreme compact miniature sensor
- Flexible mounting via swivel flange
- High speed measurement, wire acceleration up to 100g

Model MPM





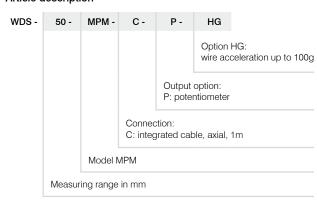


Measuring range (mm)	A (mm)
50	55
150 / 250	64
50-HG	61
150 / 250-HG	70

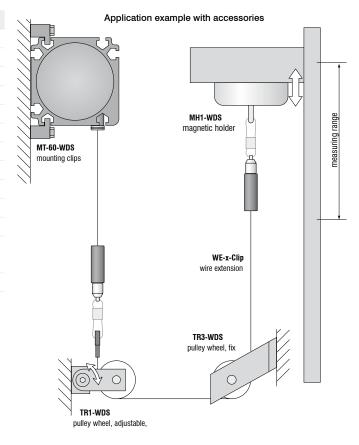
Model	del		WDS-50-MPM WDS-150-MPM WDS-250-MPM		
Output		Р			
Measuring range		50mm 150mm 250mm			
Linearity	<0.2% FSO	-	<0.3mm	<0.5mm	
	<0.25% FSO	o <0.125mm -			
Resolution		quasi infinite			
Sensor element		conductive plastic potentiometer hybrid potentiometer			
Temperature range		-20 +80 °C			
Material	housing	aluminium			
	draw wire	stainless steel (ø 0.45mm)			
Sensor mounting		swivel flange in two axes 180° / 360°			
Wire mounting		thread M4			
Wire acceleration		appr. 25g (option HG: 100g)			
Wire retraction force (min)		1.5N (option HG: 10N)			
Wire extension force (max)		3.5N (option HG: 17N)			
Protection class		IP 65			
Vibration		20g, 20Hz - 2kHz			
Mechanical shock		50g, 20ms			
Electrical connection		integrated cable, axial, 3-leads, 1m			
Weight		appr. 150g			

FSO = Full Scale Output Specifications for analog outputs on page 51.

Article description



Accessories:	
WE-xxx-M4	Wire extension with M4-wire connection, x=length
WE-xxxx-Clip	Wire extension with eyelet, x=length
TR1-WDS	Pulley wheel, adjustable
TR3-WDS	Pulley wheel, fixed
GK1-WDS	Attachment head for M4
MH1-WDS	Magnetic holder for wire mounting
MH2-WDS	Magnetic holder for sensor mounting
MT-60-WDS	Mounting clamp for WDS-P60
FC8	Female connector for WDS, 8-pin
FC8/90	Female connector 90° for WDS
PC 3/8-WDS	Sensor cable, lenght 3m
PS 2020	(Power Supply 24 V / 2,5 A, Input 100 - 240 VAC, output 24 VDC / 2.5 A, for snap in mounting on DIN 50022 rail)
WDS-MP60	Mounting plate for P60 sensors

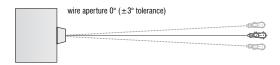


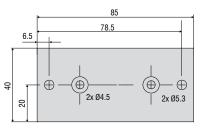
Installation information:

Wire attachment: The free return of the measurement wire is not permissible and it is essential that this is avoided during installation.

Wire exit angle:

When mounting a draw-wire displacement sensor, a straight wire exit ($\pm 3^{\circ}$ tolerance) must be taken into account. If this tolerance is exceeded, increased material wear on the wire and at the wire aperture must be expected.





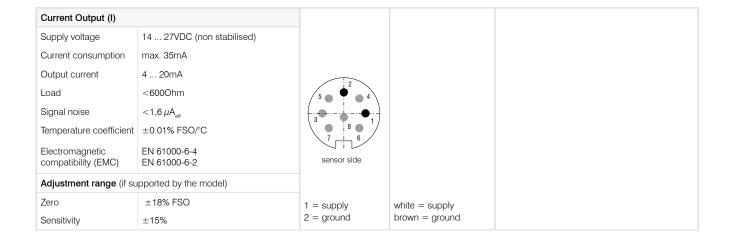
Mounting plate WDS-MP60

Output specifications analog

Output	Plug M16 -SA / -SR	Integrated cable -CA / -CR	Open contacts
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Potentiometric output (P) max. 32VDC at 1kOhm / 1 Wmax Supply voltage Resistance 1kOhm ±10% (potentiometer) Temperature coefficient ±0.0025% FSO/°C sensor side 1 = input +white = input +1 = input +2 = groundbrown = ground2 = signal ccw 1 - \ \ \ \ \ \ \ \ \ \ \ \ - 3 cw 3 = signal green = signal 3 = ground

Voltage output (U) 14 ... 27VDC (non stabilised) Supply voltage Current consumption max. 30mA 0 ... 10VDC Output voltage Option 0 ... 5 / ±5V Load impedance >5kOhm Signal noise $0.5 \mathrm{mV}_{\mathrm{eff}}$ sensor side Temperature coefficient ±0.005% FSO/°C Electromagnetic EN 61000-6-4 compatibility (EMC) EN 61000-6-2 Adjustment ranges (if supported by the model) 1 = supply $\quad \text{white} = \text{supply} \quad$ 2 = groundbrown = ground Zero ±20% FSO 3 = signal green = signal yellow = groundSensitivity ±20% 4 = ground



High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



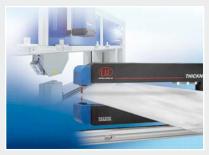
2D/3D profile sensors (laser scanner)



Optical micrometers, fibre optic sensors and fibre optics



Color recognition sensors, LED analyzers and color inline spectrometer



Measurement and inspection systems