

More Precision

wireSENSOR // Draw-wire displacement sensors

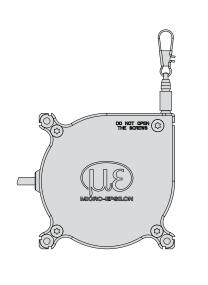


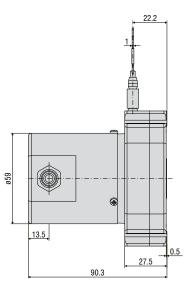
wire SENSOR MK88 analog

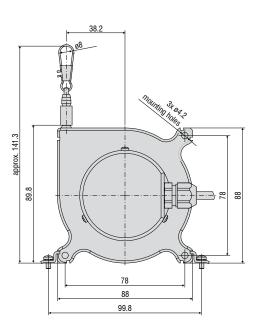


- Robust plastic housing
- Customized versions for OEM
- Potentiometer, current and voltage output

Model MK88



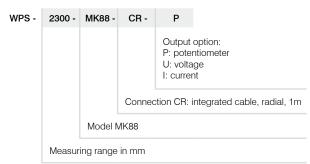




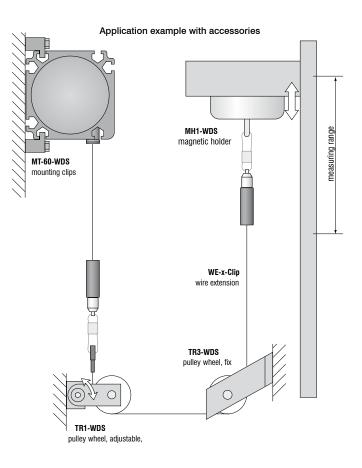
Model		WPS-2300-MK88	WPS-3500-MK88	WPS-5000-MK88		
Output			P/U/I			
Sensor element			potentiometer			
Measuring range		2300mm	3500mm	5000mm		
Linearity		±0.15% FSO	±0.3% FSO	±0.4% FSO		
Resolution/Sensitivity			towards infinity			
Temperature range			-20 °C +80 °C			
	housing	plastic, PA 6 GF 30				
Material	draw-wire	coat	ed polyamide stainless steel (ø 0.45	mm)		
	protection cap		plastic, PBT GF 20			
Wire mounting			wire clip			
Sensor mounting		mounting h	oles / mounting grooves on the sens	sor housing		
Wire retraction force (min)			4N			
Wire extension force (max)			9N			
Wire acceleration (max)			approx. 7g			
Protection class			IP65			
Electrical connection			cable, radial, 1m			
Weight (with cable)			400-430g			

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, length 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

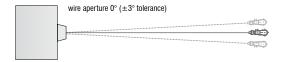


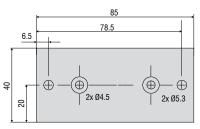
Installation information:

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 Integrated cable -CA / -CR Open contacts	
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Potentiometric output	(P)	12			
Supply voltage Resistance Temperature coefficient	max. 32VDC at 1kOhm / 1 Wmax 1kOhm ±10% (potentiometer) ±0.0025% FSO/°C	5	white = input + brown = grounding	1 = input + 2 = signal	2 3 3 WIPER
		3 = signal	green = signal	3 = grounding	①-VVVV-3 cw

Voltage output (U)			
Supply voltage	14 27VDC (non stabilized)	5 4 3 1 7 1 6 sensor side	
Current consumption	max. 30mA		
Output voltage	0 10VDC Option 0 5 / ±5V		
Load impedance	>5kOhm		
Signal noise	0.5mV _{eff}		
Temperature coefficient	±0.005% FSO/°C		
Electromagnetic compatibility (EMC)	EN 61000-6-4 EN 61000-6-2		
Adjustment ranges (if supported by the model)		1 = supply	white = supply
Zero	±20% FSO	2 = grounding 3 = signal 4 = ground	brown = grounding green = signal
Sensitivity	±20%		yellow = ground

Current Output (I)			
Supply voltage	14 27VDC (non stabilized)		
Current consumption	max. 35mA		
Output current	4 20mA	5 4	
Load	<600Ohm		
Signal noise	$<$ 1,6 μ A _{eff}		
Temperature coefficient	±0.01% FSO/°C		
Electromagnetic compatibility (EMC)	EN 61000-6-4 EN 61000-6-2	sensor side	
Adjustment range (if supported by the model)			
Zero	±18% FSO	1 = supply	white = supply
Sensitivity	±15%	2 = grounding	brown = grounding

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, fiber optic sensors and fiber optics



Color recognition sensors, LED analysers and color inline spectrometer



Measurement and inspection systems