

More Precision

wireSENSOR // Draw-wire displacement sensors



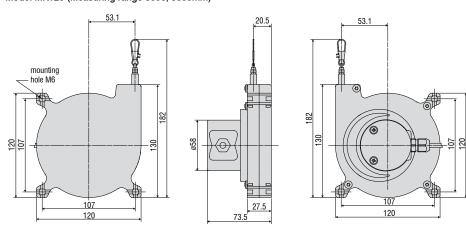
Low-cost draw-wire displacement sensors

wireSENSOR MK120 analogue

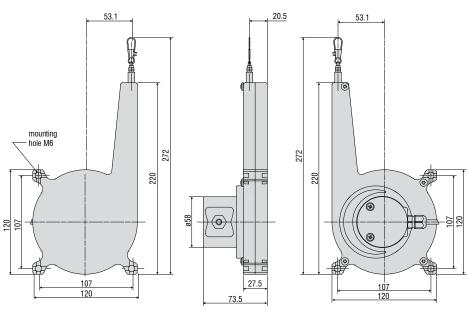


- Robust plastic housing
- Customised versions for OEM
- Potentiometer, current and voltage output

Model MK120 (Measuring range 3000, 5000mm)



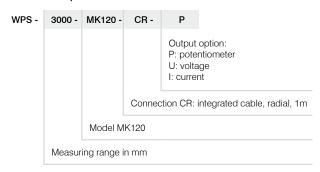
Model MK120 (Measuring range 7500mm)



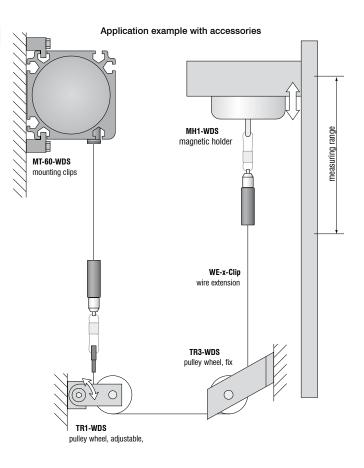
Model		WPS-3000-MK120	WPS-5000-MK120	WPS-7500-MK120
Output			P, U, I	
Measuring range		3000mm	5000mm	7500mm
Linearity	±0.15% FSO	±4.5mm	±7.5mm	±11.25mm
Resolution			quasi infinite	
Temperature range			-20 to 80°C	
Material	housing	plastic PA6		
	draw wire	coated polamide stainless steel (ø 0.45mm)		
Wire mounting		wire clip		
Wire acceleration		2.5g 1.5g		1.5g
Wire retraction force (min)		5.5N	5N	7N
Wire extension force (max)		8N 13N		
Electrical connection		integrated cable, radial, 1m		
Protection class		IP 65		
Weight		0.75kg 0.9kg		

FSO = Full Scale Output
Specifications for analogue outputs on page 47.

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

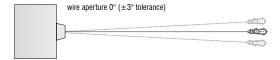


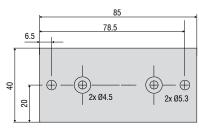
Installation information:

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

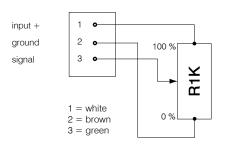
Wire exit angle:

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.

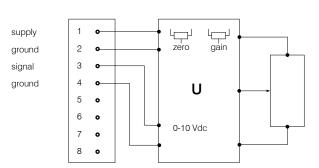




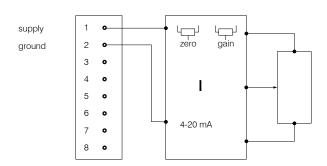
Mounting plate WDS-MP60



Potentiometric output (P)		
Supply voltage	max. 32VDC at 1kOhm / 1 Wmax	
Resistance	1kOhm ±10% (potentiometer	
Temperature coefficient	±0.0025% FSO/°C	
Sensitivity	depends on measuring range individually shown on test report	



Voltage output (U)		
Supply voltage	14 27VDC (non stabilised)	
Current consumption	max. 30mA	
Outrast salta as	0 10VDC	
Output voltage	Option 0 5 / ±5V	
Load impedance	>5kOhm	
Signal noise	$0.5 \text{mV}_{\text{eff}}$	
Temperature coefficient	±0.005% FSO/°C	
Electromagnetic compatibility (EMC)	EN 50081-2	
	EN 50082-2	
Adjustment ranges		
Zero	±20% FSO	
Sensitivity	±20%	



Current Output (I)		
Supply voltage	14 27VDC (non stabilised)	
Current consumption	max. 35mA	
Output current	4 20mA	
Load	<600Ohm	
Signal noise	<1.6µAeff	
Temperature coefficient	±0.01% FSO/°C	
Electromagnetic	EN 50081-2	
compatibility (EMC)	EN 50082-2	
Adjustment range		
Zero	±18% FSO	
Sensitivity	±15%	

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Sensors and systems for displacement and position



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