



More Precision

wire**SENSOR**

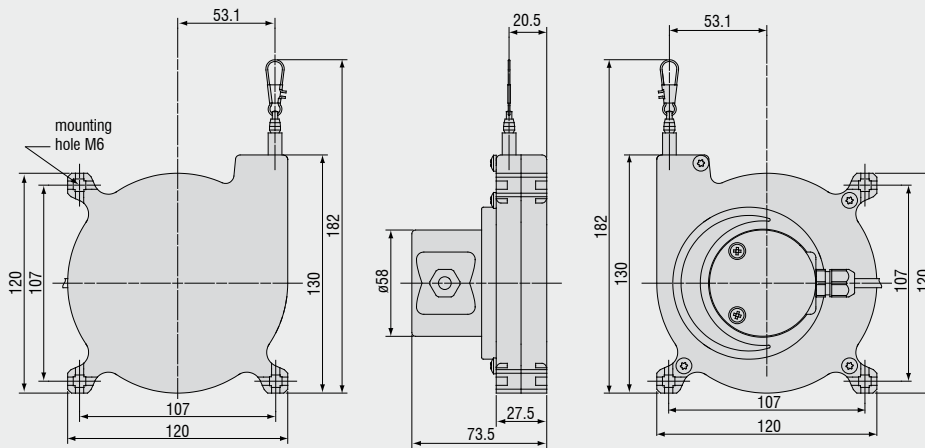
Draw-wire displacement sensors



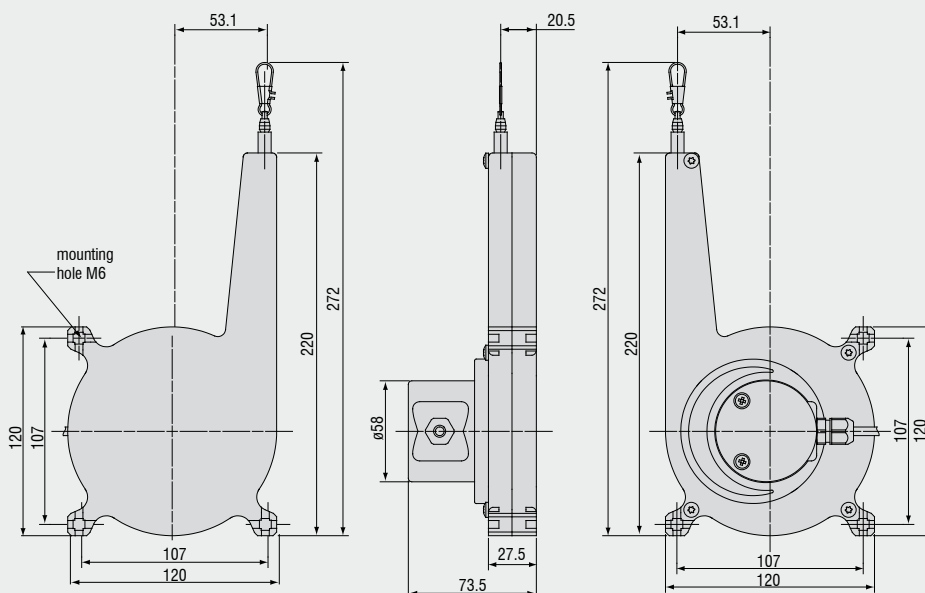


- Robust plastic housing
- Customized versions for OEM
- Potentiometer, current and voltage output

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
Resolution	quasi infinite		
Temperature range	-20 to 80°C		
Material	housing	plastic PA6	
	draw wire	0.45mm coated	
Wire mounting	wire clip		
Wire acceleration		2.5g	1.5g
Wire retraction force (min)	5.5N	5N	7N
Wire extension force (max)		8N	13N
Electrical connection	integrated cable, radial, 1m length		
Protection class	IP 65		
Weight		0.75kg	0.9kg

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

Article description

WPS - 3000 - MK120 - CR - P

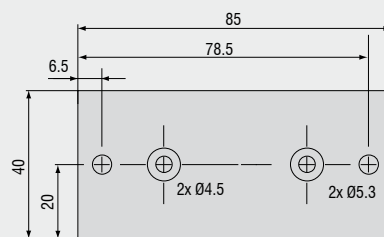
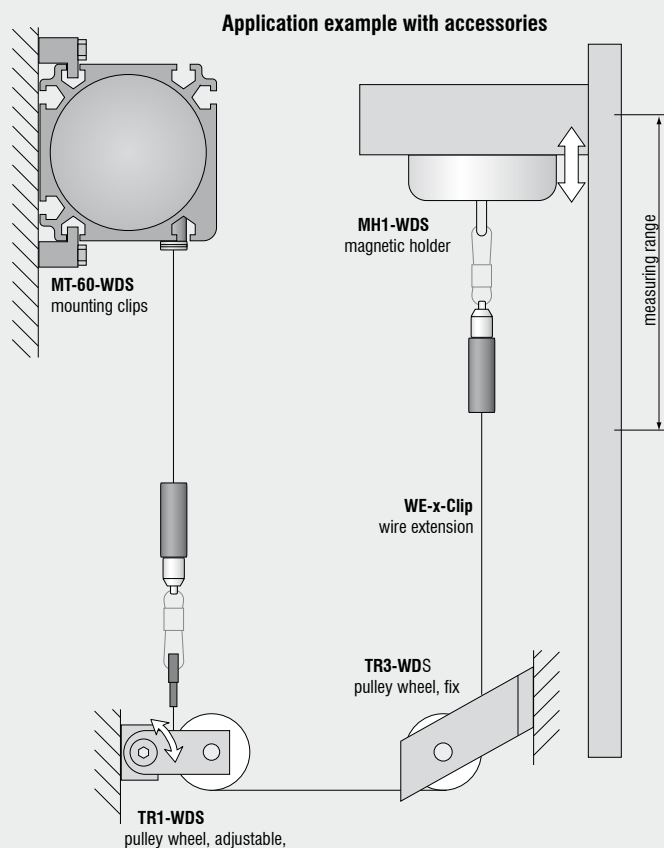
Output option:
 P: potentiometer
 U: voltage
 I: current

Connection CR: integrated cable, radial, 1m

Model MK120

Measuring range in mm

WE-x-M4, WE-x-Clip	Wire extension 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	Sensor cable, length 3 m
PS 2010	Power supply (chassis mounting 35 x 7.5 mm); input 120/230 VAC; output 24 VDC/2.5 A; L/B/H 120 x 20 x 40 mm
WDS-MP60	Mounting plate for P60 sensors



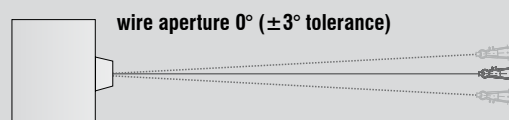
Mounting plate WDS-MP60

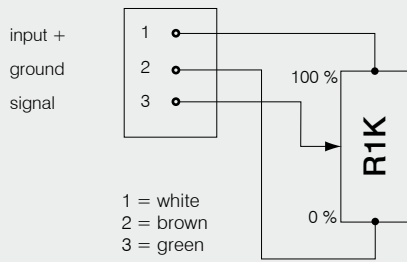
Installation information:

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

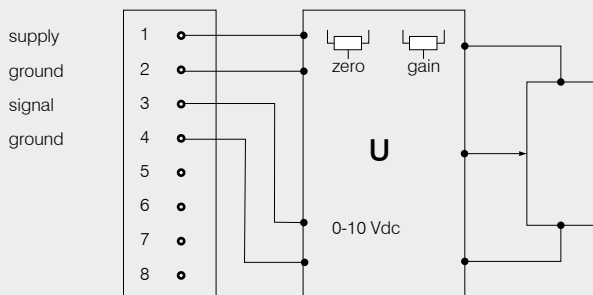
Wire exit angle:

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.

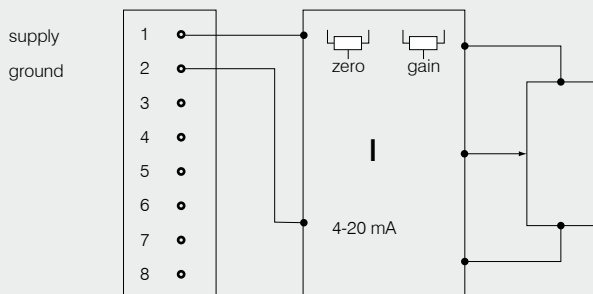




Potentiometric output (P)	
Supply voltage	max. 32VDC at 1kOhm / 1 Wmax
Resistance	1kOhm ±10% (potentiometer)
Temperature coefficient	±0.0025% FSO/°C
Sensitivity	depends on measuring range individually shown on test report



Voltage output (U)	
Supply voltage	14 ... 27VDC (non stabilized)
Current consumption	30mA max
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 50081-2 EN 50082-2
Adjustment ranges	
Zero	±20 %FSO
Sensitivity	±20 %



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

High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Measurement and inspection systems for quality assurance



Sensors and measurement devices for non-contact temperature measurement



Optical micrometers, fibre optic sensors and fibre optics



2D/3D profile sensors (laser scanner)



Colour recognition sensors, LED analyzers and colour online spectrometer



MICRO-EPSILON Headquarters
Koenigbacher Str. 15 · 94496 Ortenburg / Germany
Tel. +49 (0) 8542 / 168-0 · Fax +49 (0) 8542 / 168-90
info@micro-epsilon.com · www.micro-epsilon.com

MICRO-EPSILON UK Ltd.
No.1 Shorelines Building · Shore Road · Birkenhead · CH41 1AU
Phone +44 (0) 151 355 6070 · Fax +44 (0) 151 355 6075
info@micro-epsilon.co.uk · www.micro-epsilon.co.uk