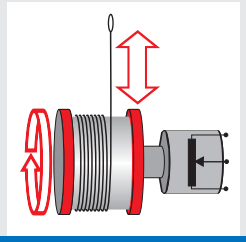
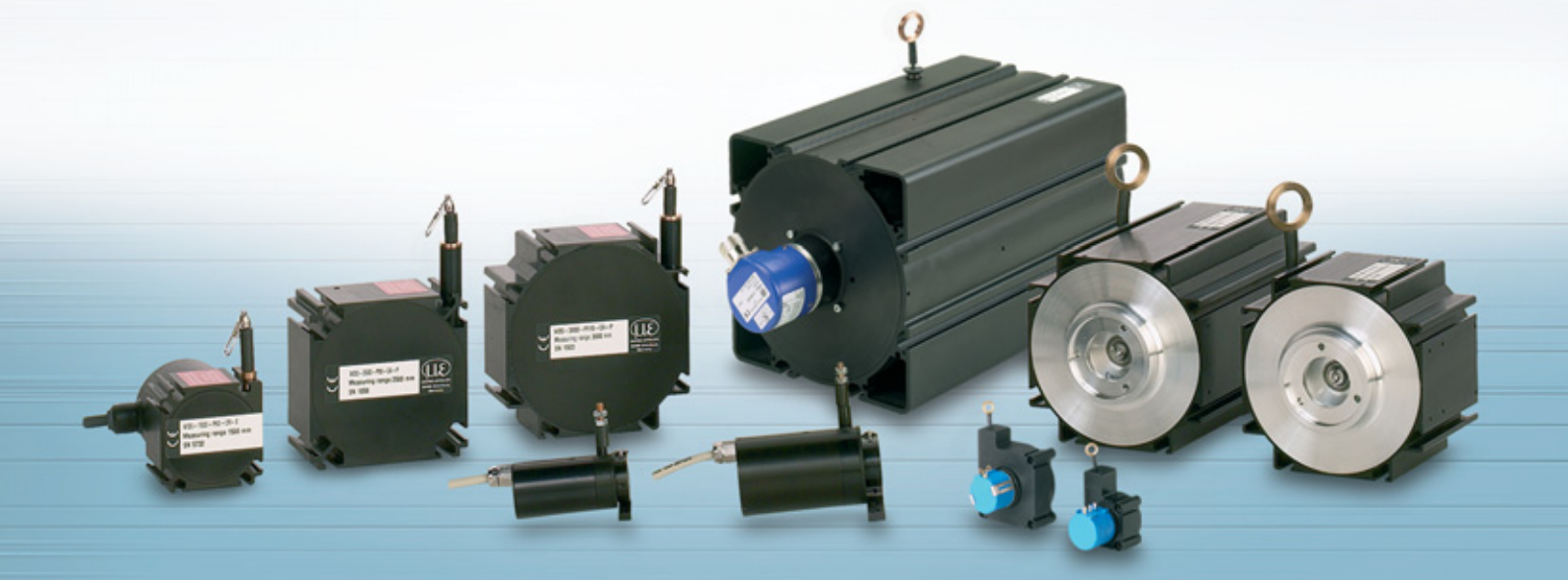
MICRO-EPSILON

More Precision.

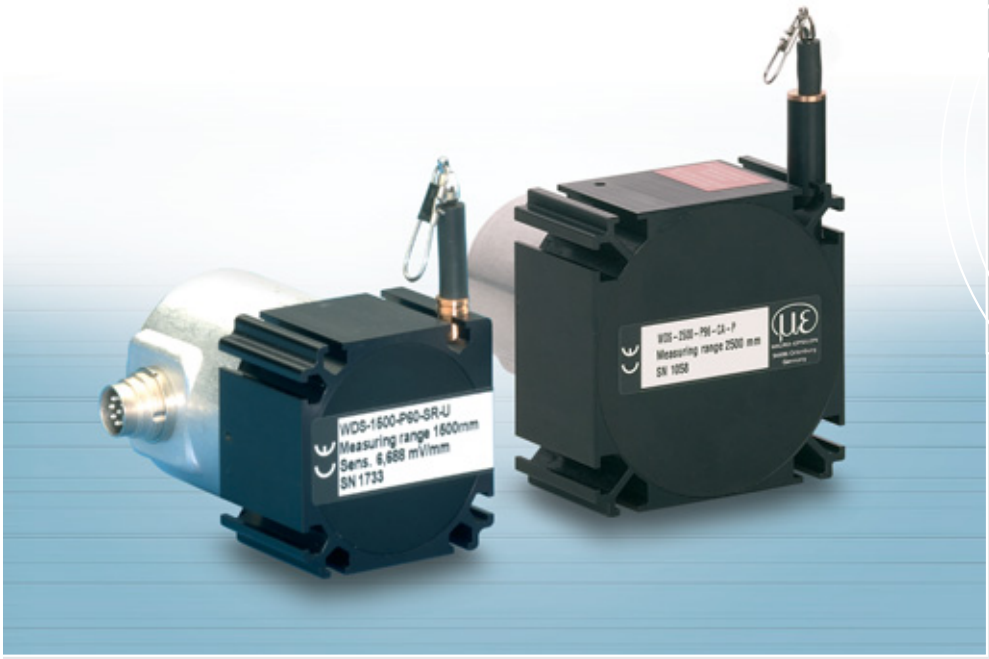
wireSENSOR

Draw wire sensors / CET / String pots





wireSENSOR
Analog series P60 / P96



Best seller - most economic model

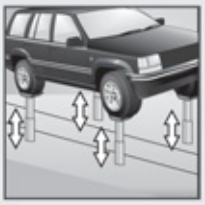
Very robust sensor housing

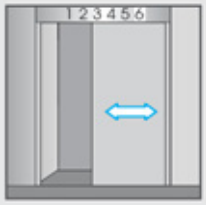
Easy and flexible mounting

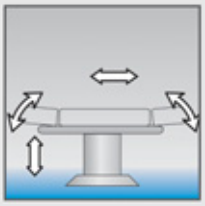
Universal analog sensors for industrial applications

The analog series P60 and P96 are for general purpose use. Numerous options enable a suitable sensor to be selected for almost any application. Mounting grooves on four sides of the housing facilitate quick and flexible mounting. Various types of signal outputs and an optimized size make this series suitable for a wide range of applications, also in harsh environments.

The series has an attractive price/performance ratio based on state of the art technology.

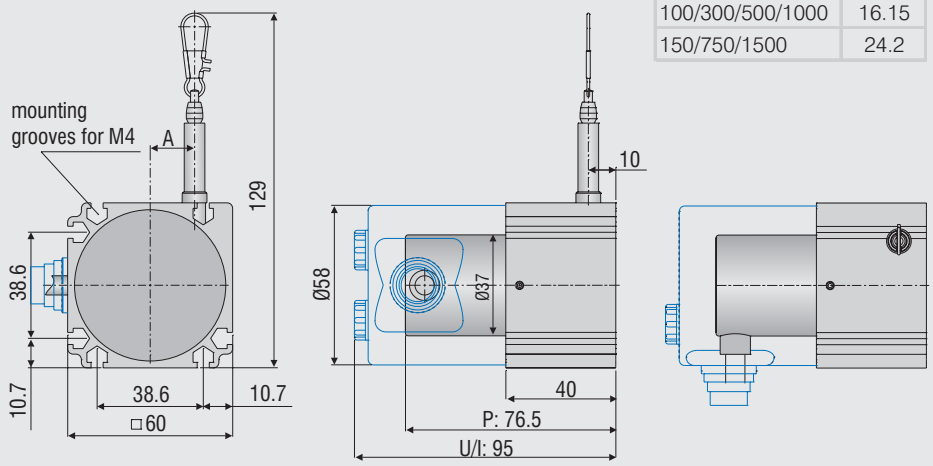






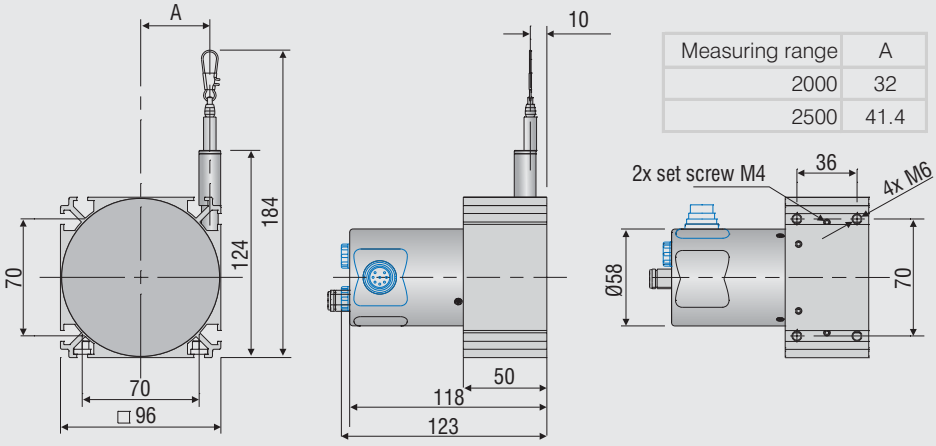
Model P60-P (P60-U/I)

Measuring range	A
100/300/500/1000	16.15
150/750/1500	24.2



Model P96-P (P96-U/I)

Measuring range	A
2000	32
2500	41.4



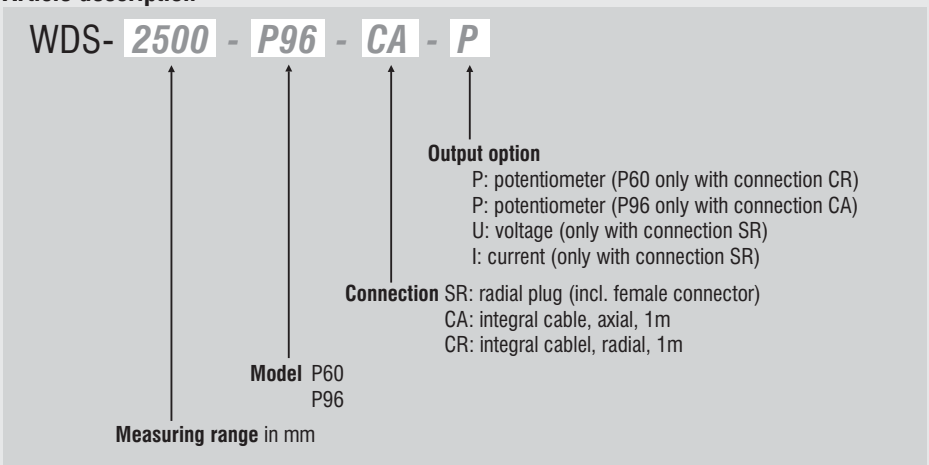
Dimensions in mm, not to scale. Please ask for detailed reference drawings.

		WDS-100-P60	WDS-150-P60	WDS-300-P60	WDS-500-P60	WDS-750-P60	WDS-1000-P60	WDS-1500-P60	WDS-2000-P96	WDS-2500-P96
Output		P/U/I								
Measuring range	mm	100	150	300	500	750	1000	1500	2000	2500
Linearity ±0.1 % FSO	±mm	-	-	-	0.5	0.75	1	1.5	2.0	2.5
Linearity ±0.25 % FSO	±mm	-	-	0.75	-	-	-	-	-	-
Linearity ±0.5 % FSO	±mm	0.5	0.75	-	-	-	-	-	-	-
Resolution	mm	0.1	0.15	0.2	quasi infinite					
Sensor element		wire-wound			hybrid-potentiometer					
Temperature range		-20 ... +80 °C								
Material housing		aluminum								
Material draw wire		coated polyamid stainless steel (ø 0.45 mm)							ø 0.8 mm	
Sensor mounting		mounting grooves in the housing / slot nuts								
Wire mounting		wire clip								
Wire acceleration		appr. 10 - 15 g (dependent upon measuring range)							8 g	
Wire retraction force (min)	N	6.5	4.5	6	6	4	5	3.5	7.5	5.5
Wire extension force (max)	N	7.5	5.5	7.5	7.5	5.5	7.5	5.5	11	9
Protection class DIN EN 60529		IP 65 (only if connected)								
Vibration IEC 68-2-6		20 g, 20 Hz - 2kHz								
Mechanical shock IEC 68-2-27		50 g, 10 ms								
Electrical connection output P		integral cable, radial, 1 m long							int. cable, axial, 1 m	
Electrical connection output U/I		connector, radial, 8-pin, DIN45326								
Weight		appr. 370 g							appr. 1.1 kg	

FSO = Full Scale Output

Specifications for analog outputs on page 27.

Article description



wireSENSOR
Digital series P60 / P96

Best seller - most economic model

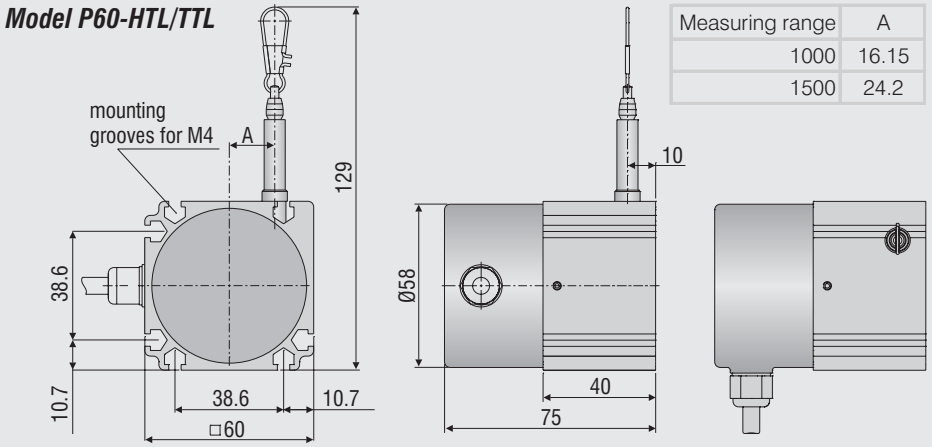
Very robust sensor housing

Easy and flexible mounting

Universal digital sensors for industrial applications

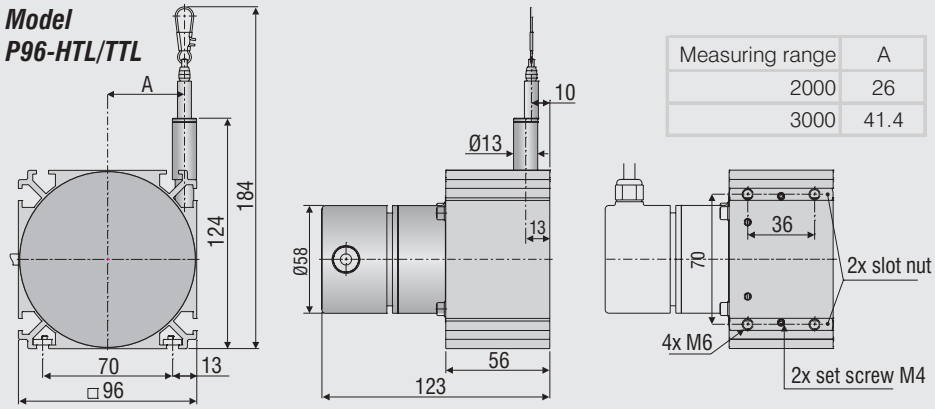
The digital series P60 and P96 are for general purpose use. Numerous options enable a suitable sensor to be selected for almost any application. Mounting grooves on four sides of the housing facilitate quick and flexible mounting. The series has an attractive price/performance ratio based on state of the art technology. Various types of signal outputs and an optimized size make this series suitable for a wide range of applications, also in harsh environments.

Model P60-HTL/TTL

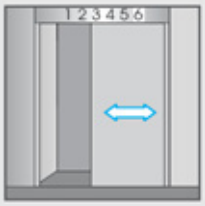


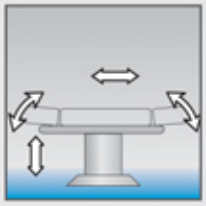
Measuring range	A
1000	16.15
1500	24.2

Model P96-HTL/TTL

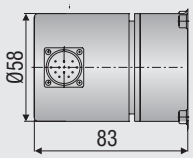


Measuring range	A
2000	26
3000	41.4

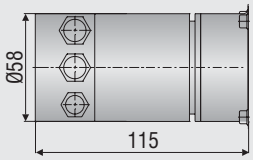




Model P96-SSI



Model P96-CO/PB



Dimensions in mm, not to scale. Please ask for detailed reference drawings.

		WDS-1000-P60	WDS-1500-P60	WDS-3000-P96
Output		HTL, TTL		HTL, TTL, SSI, PB, CO
Measuring range		1000 mm	1500 mm	3000 mm
Linearity	±0.02 % FSO	±0.2 mm	±0.3 mm	±0.6 mm
Resolution	HTL, TTL	0.067 mm (15 pulses/mm)	0.1 mm (10 pulses/mm)	0.087 mm (11.53 pulses/mm)
Resolution	SSI, PB, CO	-	-	0.032 mm
Sensor element		incremental encoder		incremental-/absolute-encoder
Temperature range		-20 ... +80 °C		
Material	housing	aluminum		
	draw wire	coated polyamid stainless steel (ø 0.45 mm)		ø 0.8 mm
Sensormontage		mounting grooves in the housing / slot nuts		
Wire mounting		wire clip		
Wire acceleration		10 g	15 g	7 g
Wire retraction force (min)		5 N	3.5 N	5.5 N
Wire extension force (max)		7.5 N	5.5 N	9 N
Protection class	DIN EN 60529	IP 65 (only if connected)		
Vibration	IEC 68-2-6	20 g, 20 Hz - 2 kHz		
Mechanical shock	IEC 68-2-27	50 g, 10 ms		
Electrical connection	output HTL, TTL	integral cable, radial, 1 m long		
	output SSI	connector, radial, 12-pin		
	output PB, CO	bus cover		
Weight		appr. 1 kg		appr. 1.7 kg

FSO = Full Scale Output

Specifications for digital outputs on page 28 and continuing.

Article description

WDS- *3000* - *P96* - *CR* - *TTL*

Output option TTL
HTL
SSI (only P96)
CO: CANopen (only P96)
PB: Profibus DP (only P96)

Connection SR (only SSI): radial plug (incl. female connector)
CR (only HTL, TTL): integral cable, radial, 1m
BH (only CO, PB)

Model P60
P96

Measuring range in mm

More Precision.

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Sensors and systems
for displacement, position and dimension

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for online/offline quality control

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