

Datasheet

With serial output for target value input
 or transmission of the actual value



Features at a glance

- Programmable electronic position indicator combinable with magnetic ring for rotative measurement, linear measurement and fieldbus interface for accurate adjustment control of spindles.
 - All parameters are freely programmable.
 - LCD with two rows with backlight for target- and actual value.
 - Suitable for semi-automatic and monitored adjustments of spindles.
 - Freely programmable via keyboard operation with RS485 Modbus interface.
 - RS485 Modbus for network connection with PLC or remote monitoring system.
 - User guidance via 2 signal LEDs (green/red) to indicate: position has been reached / not reached.
 - PUR-sensor cable suitable for mobile laying in cable chains
 - Fieldbus connection via gateway interface: Profinet, EtherNet/IP, EtherCat and Powerlink.
- Battery lifetime: 6 to 8 years.

Mechanical characteristics

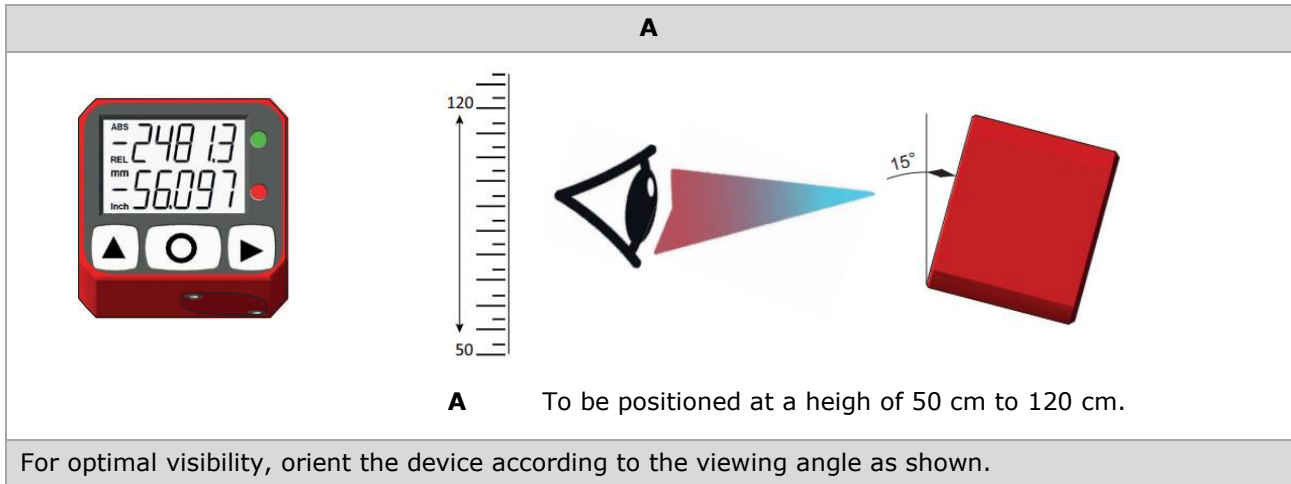
Weight	150 g (only display)
Display	LCD with backlight, digit height 7,5 mm First row: target value – second row: actual value
Display range	-99999; +99999
Speed	Max. 1.000 rpm
Sensor cable	PUR-cable, Ø5,5 mm – pre-wired, not detachable, for mobile laying in cable chains; cable length: 0.5, 1, 3, 5 or 10 meters
Operating temperature	0°C to +50°C
Relative humidity	35 to 85% (no condensation)
Protection class	IP54 display, IP67 sensor
Connection type /serial connection	Open cable end (standard) T-connector, 4-pole plug + 4-pole socket M12x1 (A-coded) Y-connector, 4-pole socket 2x M12x1 (A-coded), optional
Power supply /serial output	Cable length 135 mm (with T-connector) Cable length 200 mm (with Y-connector)

Electrical characteristic

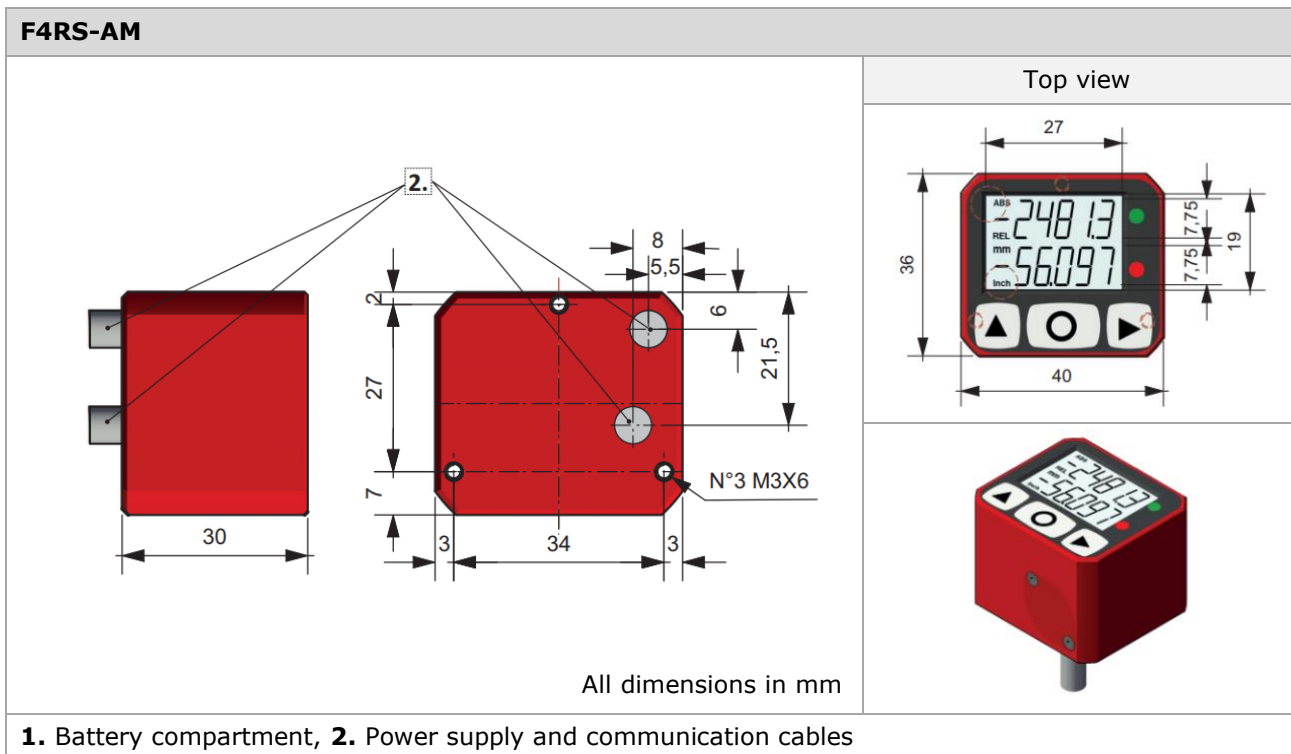
Power supply	10-30 VDC, max. 100 mA
Battery	3,6 V- 1/2 AA, lifetime 6-8 years
Available functions	Reset, absolute/ incremental value, mm/ inch-conversion, offset
Keyboard	Frontal keyboard – 3 programming- and function keys
Serial port	RS485 – MODBUS RTU
Electromagnetic compatibility (EMC)	2014/30/UE
RoHS	2011/65/UE

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View / Mounting position

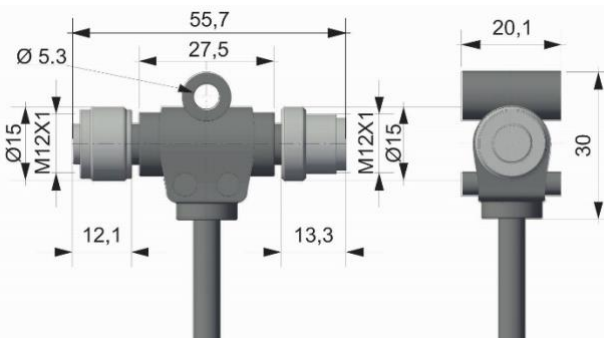
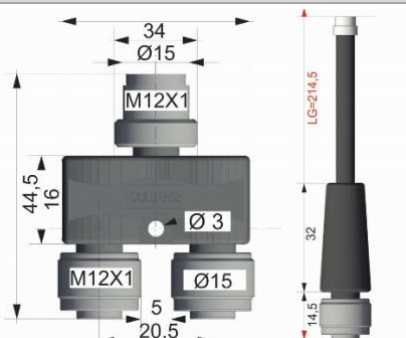


Dimensions Position indicator



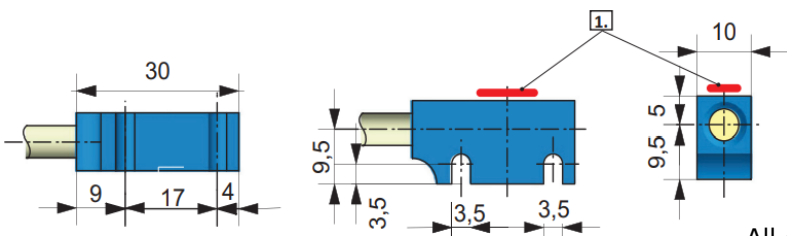
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Dimensions Connector

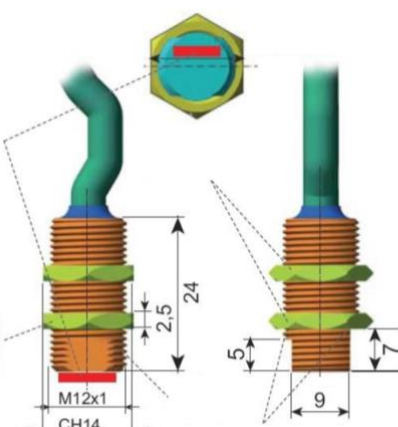

T-Connector M12T (standard)	Y-Connector M12Y (optional)
	
T-connector, 4-pole plug + 4-pole socket M12x1 (A-coded)	Y-connector, 4-pole socket 2x M12x1 (A-coded), optional

All dimensions in mm

Dimensions Magnetic sensor

Magnetic sensor MT (standard)

1. Reading sensor

All dimensions in mm

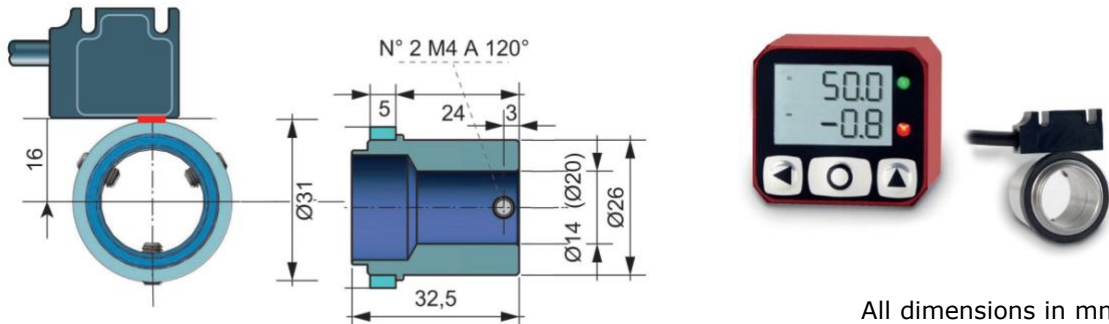
Sensor SM12 (optional)



All dimensions in mm

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Dimensions Magnetic ring

Magnetic ring AM (optional)



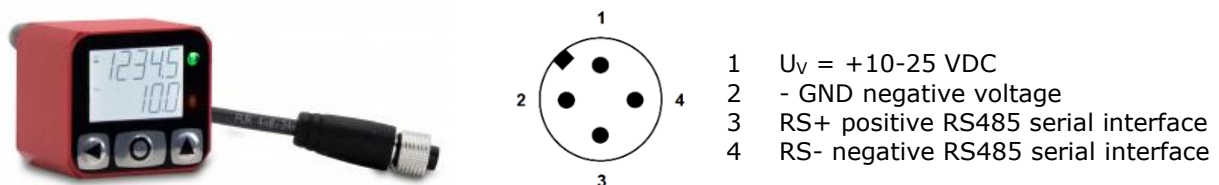
Combinable with magnetic ring for rotative measurement Type **AM** (optional), on request.

Dimensions Magnetic band

Magnetic band P50/10 (optional)



Sensor-power supply cable



Position indicator with sensor-power supply cable M12 4-pole (thread connector) / pin

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Fieldbus connectivity (optional)

Protocol gateway for F4RS and EP4_RS



GATEWAY-EP4-F4

Protocol converter which connects the EP4_RS and F4RS position indicators to fieldbus networks.



Ordering example

Type **F4RS** - **A** - **1.0** - **MT**

F4RS

F4RS-AM = Version for magnetic ring

Mounting position

A = To be positioned at a height of 50 cm to 120

Sensor power supply cable

0.5 = 0,5 m

1.0 = 1 m

3.0 = 3 m

5.0 = 5 m

10.0 = 10 m

Connection type

= Open cable end (standard)

M12T = T-connector: 4-pole plug + 4-pole socket M12x1 (A-coded)

M12Y = Y-connector: 4-pin socket 2x M12x1 (A-coded), optional

Sensor

MT (standard)

SM12 (optional)

Ordering example Magnetic ring AM (optional)

Type **AM14**

AM14 = Ø14 mm

AM20 = Ø20 mm

AM12.7 = Ø12,7 mm (½")

AM19.05 = Ø19,05 mm (¾")

AM25 = Ø25 mm

Specification = Inner diameter. Other magnetic rings available on request.

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Ordering example Magnetic band P50 (optional)

Type	P50/10	-	1.0
P50/10 = Magnetic band, pole pitch 5 mm, 10 mm width, incl. Stainless steel covering tape			
Länge (m)			
1,0	= 1 m		

Length of magnetic tape at least 30 cm, then multiples of 50 cm. Other lengths available on request

Ordering example GATEWAY-EP4-F4 for Fieldbus connectivity (optional)

Type	GATEWAY-EP4-F4	-	PROFINET
GATEWAY-EP4-F4 = Gateway for position indicators			
Fieldbus			
PROFINET	= Profinet		
ETHERNETIP	= EtherNet/IP		
ETHERCAT	= EtherCat		
POWERLINK	= Ethernet Powerlink		

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.

