You can find more information about the sensor in the operating instructions. They are available online at

https://www.micro-epsilon.com/download-file/man--wireSENSOR-WPS--en.pdf

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# **Guiding and Attaching the Wire**

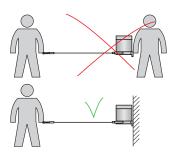
If the measuring wire must be pulled out of the sensor to guide the wire or attach it to the measured object:

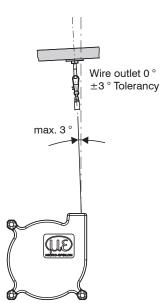
- the sensor must not be held by a second person during that process,
- the measuring wire must not be pulled out beyond the measuring range listed,
- the area around the sensor must be protected against snapping of the measuring wire.
- Attach the measuring wire to the measured object using a wire clip.
- Guide the measuring wire vertically out of the sensor housing.

Diagonal pull is only permitted up to 3 degrees.

If you drag the measuring wire over the insertion hole or other objects, the measuring wire will be damaged and/ or tear.

- If the measuring wire cannot be fed vertically out of the housing, it is essential to use a guide pulley, also see Optional Accessories in the Appendix of the Operating Instructions.
- Guide the measuring wire in a protected area so that it cannot get caught or otherwise be damaged.





Attachment and maximum diagonal pull of the measuring wire

#### **Declaration of Incorporation**

# Declaration of incorporation according to EC Machinery Directive 2006/42/EC, Annex II B

The manufacturer and person authorized to compile the relevant technical documents

> MICRO-EPSILON MESSTECHNIK GmbH & Co. KG Königbacher Straße 15, 94496 Ortenburg / Germany

hereby declare that the machine designated below complies with the relevant fundamental health and safety requirements of the EC Machinery Directive, including modifications to it applicable at the time of this declaration, based on its design and construction and in the version put on the market by us – to the extent that the scope of supply allows.

Machine design: Draw-wire sensor

(mechanics and models with potentiometer output)

Type designation: WDS-xxx, WPS-xxx

The following fundamental health and safety requirements according to Annex I of the directive specified above have been applied and complied with:

- No. 1.1.2. Principles of safety integration

Conformity according to Annex II. Part A exists.

- No. 1.7.3. Marking of machinery
- No. 1.7.4. Operating instructions

Furthermore, we declare compliance with the following directives and standards including the modifications applicable at the time this declaration is made:

- Directive 2006/42/EC (machinery)
- EN ISO 13857:2019 Safety of machinery Safety distances to prevent hazard zones being reached by upper and lower limbs
- EN 60204-1:2018 Safety of machinery Electrical equipment of machines -Part 1: General requirements
- Directive 2011/65/EU (RoHS)
- EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic devices with respect to the restriction of hazardous substances

We also declare that the special technical documentation for this partially completed machine has been created in accordance with Annex VII, Part B, and commit ourselves to disclose this to the market surveillance authorities upon request. The commissioning of these partially completed machines is prohibited until the partially completed machine(s) has/have been installed in a machine that meets the requirements of the EC Machinery Directive and for which an EU Declaration of

Ortenburg, Germany July 1, 2021

Dipl.-Ing.(FH) Eduard Huber, MBA Quality Manager



Assembly Instructions
wireSENSOR

WPS Series WPS MK120



#### Warnings

- Do not open the sensor housing.
- Do not pull or loop the measuring wire around unprotected body parts.
- Do not pull out the measuring wire beyond the measuring range listed.
- Do not let the measuring wire snap.
- > Risk of injury
- Do not damage the measuring wire.
- Do not oil or grease the measuring wire.
- Do not kink the measuring wire.
- Do not pull the measuring wire diagonally.
- Do not let the measuring wire drag around objects.
- Attach the measuring wire to the measured object while the wire is retracted.
- > Damage to or destruction of the sensor

### **Notes on Product Marking**

The product meets the requirements of CE and UKCA. All specifications described in the operating instructions must be observed.

#### **Proper Environment**

- Protection class: IP65, on request IP67

- Temperature range

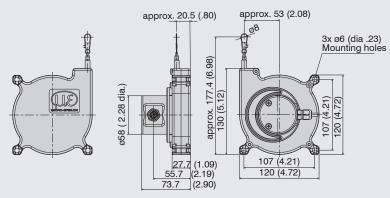
Operation: -20 ... +80 °C (-4 ... -176 °F)
 Storage: -20 ... +80 °C (-4 ... -176 °F)
 Humidity: 5 ... 95 % (non-condensing)
 Ambient pressure: Atmospheric pressure

# Unpacking/Included in Delivery

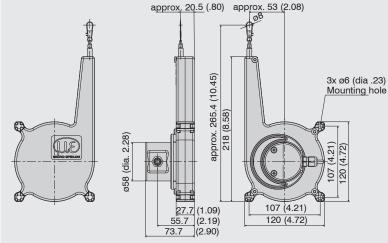
1 Sensor

1 Assembly instructions

## **Dimensional Drawings**



Dimensional drawing WPS-3000-MK120 and WPS-5000-MK120 with potentiometer, voltage, current and integrated cable, dimensions in mm (inches)



Dimensional drawing WPS-7500-MK120 with potentiometer, voltage, current and integrated cable, dimensions in mm (inches)

#### **Sensor Mounting**

Mount the sensor using three screws M6.

The sensor does not have to be oriented in a special way.

- Select the installation position in such a way that damage to or contamination of the measuring wire is avoided.
- i If possible, prefer an installation position in which the measuring wire exits downward. This prevents liquids from entering the measuring wire outlet.

#### **Pin Assignment Analog**

Electrical connection	Output		
-CR- integr. cable	-P- Potentiometer	-U- Voltage	-I- Current
White	Power supply	Power supply	Power supply
Brown	GND	GND	GND
Green	Signal	Signal	
Yellow		GND	

Pin assignment WPS-XXXX-MK120 with potentiometer, voltage, current and integrated cable

Use any potentiometer only when switched to voltage divider. Using it as a variable resistor destroys the component. The max. contact currents of sensors with hybrid potentiometer are to be observed.