# DRAW WIRE SENSOR

Links to further documents for this series: **Installation guide** 



**FX SERIES** 

#### **Key-Features:**

- Wear-free Hall-effect sensor element
- Ultra-compact body, Ø 38.1 mm
- Ideal for applications with very high cycle numbers
- Measurement ranges from 50 up to 375 mm
- Linearity ±1 % of full range
- Output signal 0...10 V
- Very low weight of 35 g
- Draw wire: stainless steel, jacketed stainless steel
- Thermoplastic body

#### **Content**

Technical Data	2
Technical Drawing	
Electrical Connection	
Warning Notices	
Order Code	
Accessories	

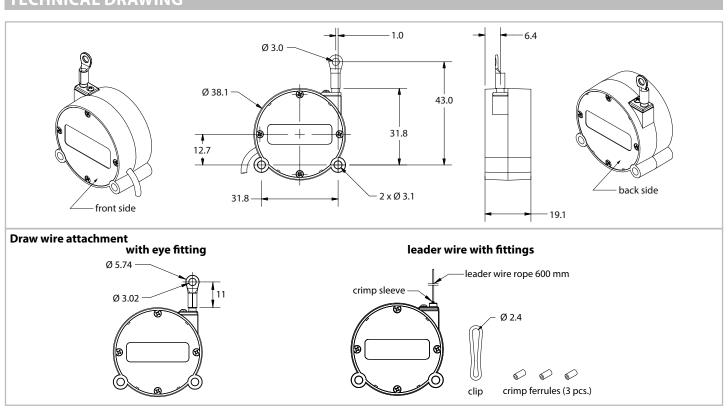


# TECHNICAL DATA

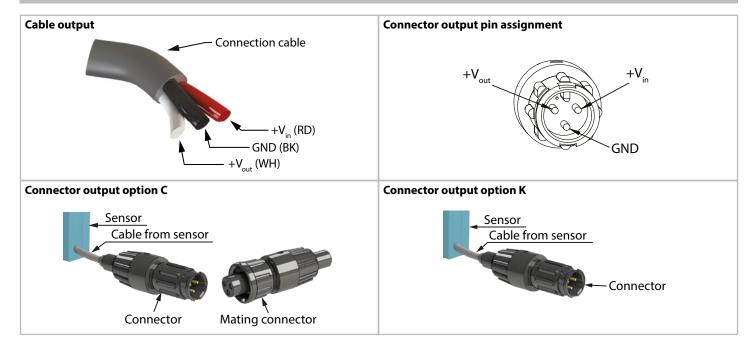
Measurement ranges	[mm]	50 / 75 / 100 / 125 / 150 / 200 / 250 / 300 / 375
Linearity 1)	[%]	±1
Repeatability 1)	[%]	±0.03
Resolution 1)	[%]	0.024
Sensor element		Hall-Effect sensor
Output signal	[VDC]	010 (+0, -0.2)
Output impedance max.	[Ω]	10
Output load min.	[kΩ]	100
Power supply	[VDC]	4.930
Excitation current max.	[mA]	30
Connection		cable output with open ends, cable output with connector at cable end with or without mating connector
Protection class		IP52 or IP65
Humidity		95 %, not condensing
Reverse polarity protection		yes
Operating temperature	[°C]	-25+75
Storage temperature	[°C]	-50+80
Shock resistance		50 g, 0.1 ms max.
Vibration resistance		15 g, 0.1 ms max.
Life cycle		approx. 6.000.000 cycles
Extraction force	[N]	nominal 1.5
Housing		thermoplastic body
Draw wire		Nylon jacketed stainless steel Ø 0.46 mm / optional: stainless steel Ø 0.41 mm
Weight	[g]	35

 $<sup>^{\</sup>mbox{\tiny 1)}}$  based on the measurement range

#### **TECHNICAL DRAWING**



# **ELECTRICAL CONNECTION**

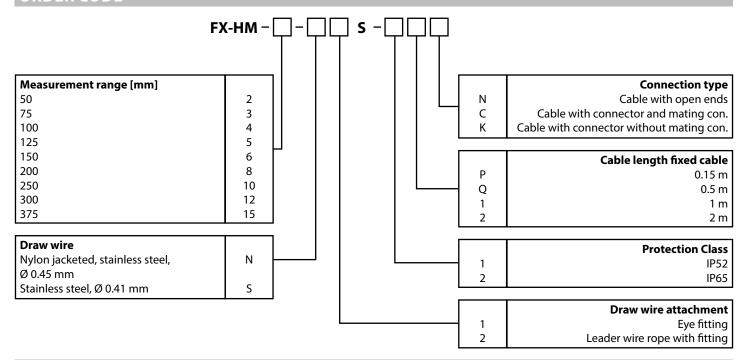


# **WARNING NOTICES**

- · Don't let the rope snap back. If the rope is retracted freely, this may lead to injuries (whiplash effect) and the device may be damaged.
- Caution when unhooking and retracting the rope into the sensor.
- Never exceed the specified measurement range when extracting the rope!
- · Do not try to open the device. The stored energy of the spring drive may lead to injuries when being mishandled.
- Do not touch the rope when operating the sensor.
- Avoid guiding the rope over edges or corners. Use a deflection pulley instead.
- · Do not operate the sensor if the rope is buckled or damaged. A ripping of the rope may lead to injuries or a damaging of the sensor.



#### **ORDER CODE**



# **ACCESSORIES**

Connection cable for	or option K	Digital disp
10248-1M	cable 1 m, with mating connector	WAY-AX-S
10248-2M	cable 2 m, with mating connector	WAY-AX-AC
10248-3M	cable 3 m, with mating connector	For more in
10248-4M	cable 4 m, with mating connector	
10248-5M	cable 5 m, with mating connector	

Digital displays for sensors with analog output, 2 channel				
WAY-AX-S	touch screen, supply: 1830 VDC			
WAY-AX-AC	touch screen, supply: 115230 VAC			
For more information and options please refer to the <u>WAY-AX data sheet</u> .				

Subject to change without prior notice.

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