# **DRAW WIRE SENSOR**



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# Series FX-HM

#### **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

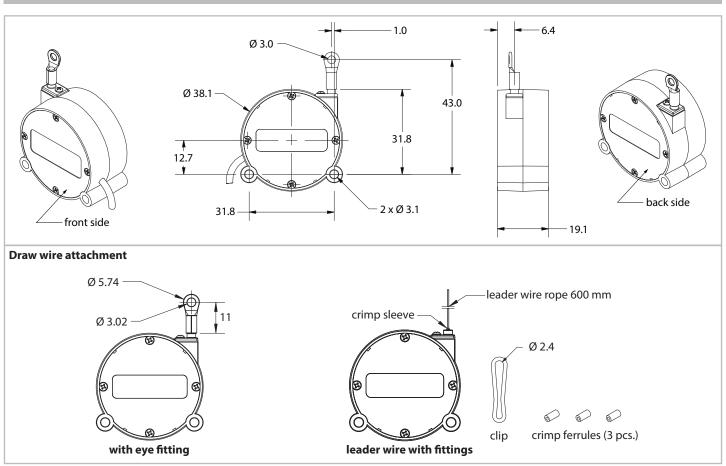


# TECHNICAL DATA

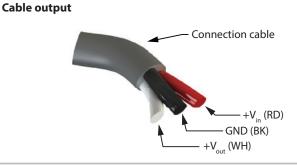
Measurement ranges	[mm]	50 / 75 / 100 / 125 / 150 / 200 / 250 / 300 / 375
Linearity 1)	[%]	±1
Repeatability 1)	[%]	±0.03
Resolution 1)	[%]	0,024
Sensor element		Hall-Effect sensor
Output signal	[VDC]	010 + 00.2
Output impedance max.	[Ω]	10
Output load min.	[kΩ]	100
Power supply	[VDC]	4.930
Excitation 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
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**



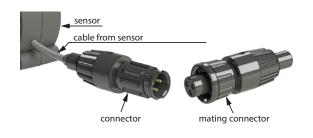
## **ELECTRICAL CONNECTION**



### Pin assignment connector output



#### Connector output option C



#### **Connector output option K**



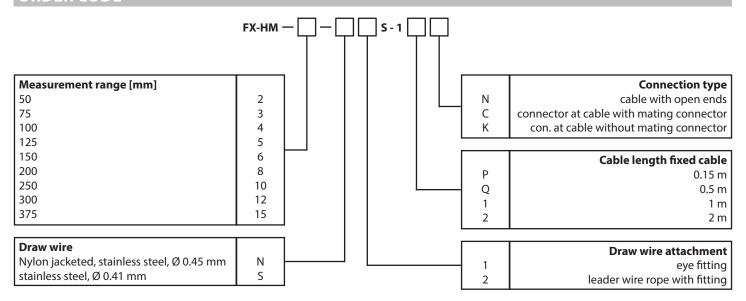
Accessory: cable with mating connector 10248-xM (x = length in m)

## **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 option K			
10248-1M	1 m, with mating connector		
10248-2M	2 m, with mating connector		
10248-3M	3 m, with mating connector		
10248-4M	4 m, with mating connector		
10248-5M	5 m, with mating connector		

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

Subject to change without prior notice.



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