DRAW WIRE SENSOR



Series FX-HM

Key-Features:

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- Wear-free Hall-effect sensor element
- Ultra compact body, Ø 3.81 cm
- ideal for applications with very high cycle numbers
- Measurement ranges from 50 up to 375 mm
- Linearity ±1.0 % of full range
- Output signal 0...10 V
- Very low weight of 35 g
- Wire rope: stainless steel, jacketed stainless steel
- Thermoplastic body



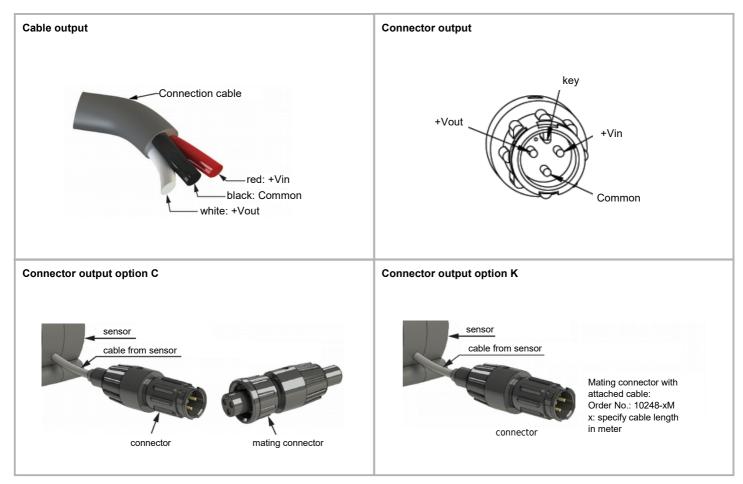
Content:

Technical Data	
Electrical Connection	
Technical Drawing	
Order Code	

TECHNICAL DATA

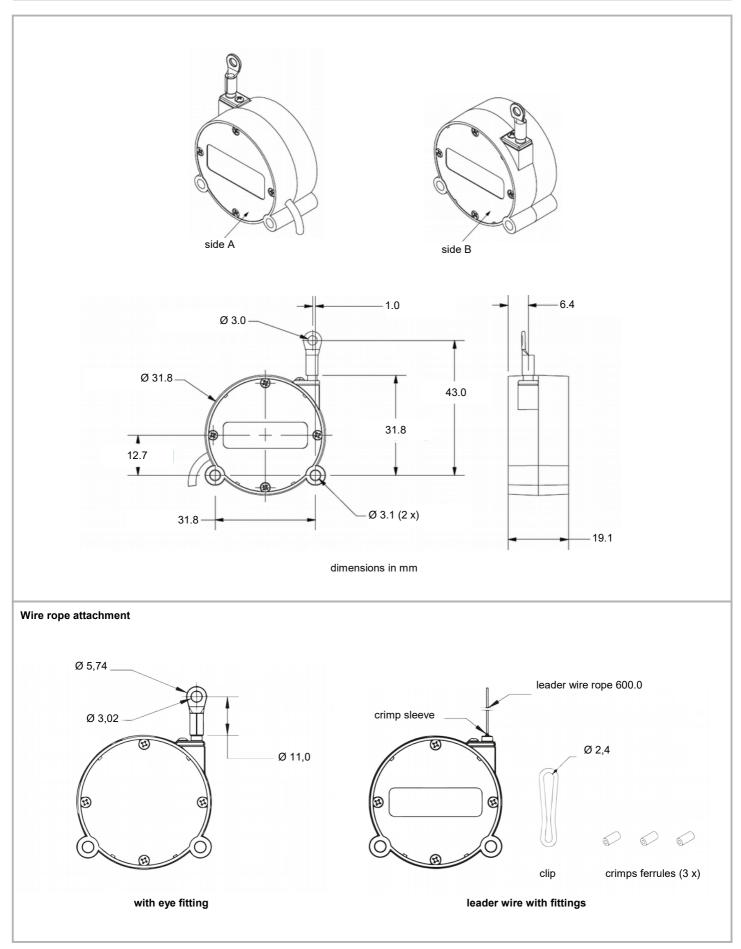
Measurement Ranges	surement Ranges 50, 75, 100, 125, 150, 200, 250, 300, 375 mm		
Sensor element	ent Hall-Effect sensor		
Protection class	IP52		
Voltage supply	4,930 VDC		
Excitation current	ation current max. 30 mA		
Resolution	Resolution 0.024% of full scale		
Linearity ±1 % of full scale			
Repeatability ±0.03% of full scale			
Working temperature -25+75 °C			
Humidity 95% no condensation			
Output signal	tput signal 010 VDC +0.0 – 0.4 VDC		
Vire Rope Ny Ion jacketed stainless steel, Ø 0.46 mm, stainless steel 0.4 mm			
Wire rope tension	ire rope tension Nominal 1.5 N		
Housing material	Thermoplastic body		
Weight	35 g		
Electrical connection	cable output open ends / cable output with connector at cable end / cable output with connector at cable end plus mating connector		
Output impedance	Dutput impedance max. 10 Ω		
Output load	utput load min. 10 kΩ		
Protection	rotection reversed polarity		
Life expectancy	e expectancy approx 6.000.000 cy cles		
Shock	50 g, 0.1 ms max.		
Vibration	15 g, 0.1 ms max.		

ELECTRICAL CONNECTION



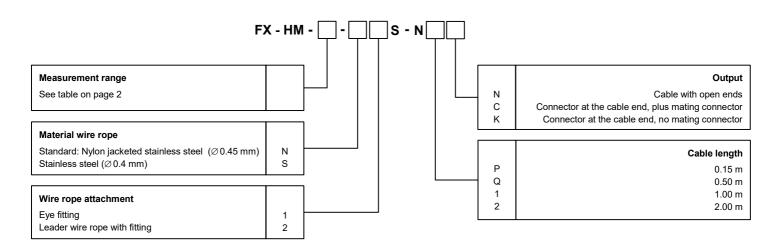


TECHNICAL DRAWING





ORDER CODE



Standard version: FX-HM-...-N1S-NPN

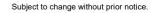
ACCESSORIES

Connection cables for option K	
10248-1M	1 meter with attached connector
10248-2M	2 meter with attached connector
10248-3M	3 meter with attached connector
10248-4M	4 meter with attached connector
10248-5M	5 meter with attached connector

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.
- The transducer must be installed away from sources of magnetic fields, as they may influence the measurement results.
- 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.





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