

DRAW WIRE SENSOR



Series ZX

Key-Features:

- *Ultra compact body*
- *Measurement range 38 mm*
- *Sensor element: potentiometer or hall effect device*
- *Linearity $\pm 1.0\%$ of full range*
- *Anodized aluminium housing*
- *Very low weight of 15 g*
- *Wire rope: Nylon jacketed stainless steel*
- *Easy mounting*

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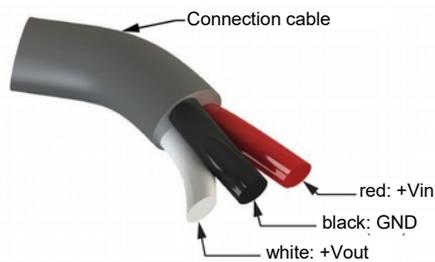
TECHNICAL DATA

Model		ZX-PA	ZX-HM
Measurement Range	[mm]	38	
Sensor element		Potentiometer	Hall-Effect device
Protection class		IP40	
Voltage supply	[VDC]	max. 30	5, ±0.25
Excitation current	[mA]	-	max. 21
Output impedance	[Ω]	0...5000	-
Input impedance	[Ω]	5000 ±10%	-
Min. load impedance	[kΩ]	-	min. 30
Resolution	[mm]	depends on the signal quality of the reference voltage	
Linearity		±1% of full scale	±1% of full scale
Repeatability		±0.03% of full scale	±0.08 mm
Dynamic response	[Hz]	25 over full range extension	
Working temperature	[°C]	-55...+100	-40...+100
Output signal		24.8 mV/mm at 1 VDC input voltage *	89% ± 3% of excitation voltage
Wire Rope		Nylon jacketed stainless steel, Ø 0.46 mm	
Wire rope tension	[N]	1.1	
Housing material		Anodized aluminium	
Weight	[g]	12	15
Electrical connection		Cable with 3 wires , 457 mm length	
Life expectancy		approx. 10.000.000 cycles	approx. 30.000.000 cycles
Shock		50 g, 0.1 ms max.	
Vibration		15 g, 0.1 ms max.	

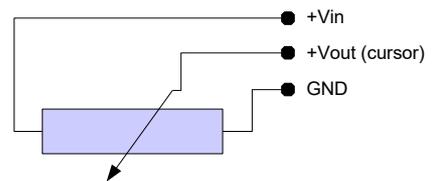
* For nominal output in application, multiply v alue shown by actual excitation v oltage.

ELECTRICAL CONNECTION

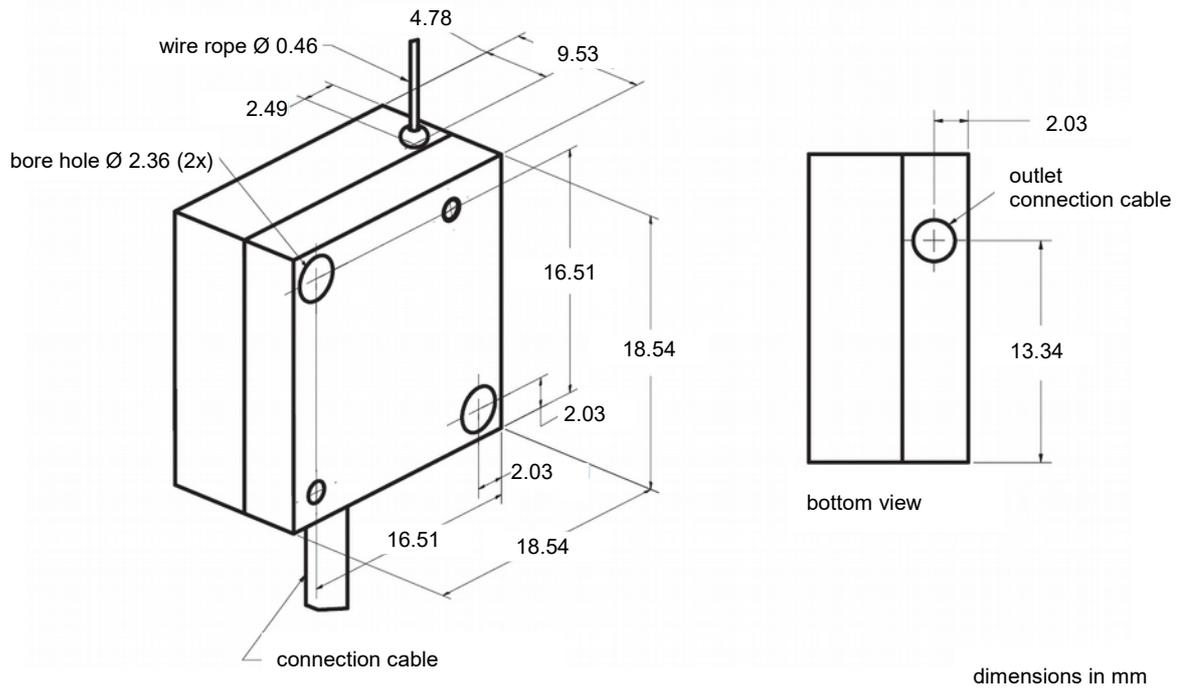
ZX-PA, ZX-HM



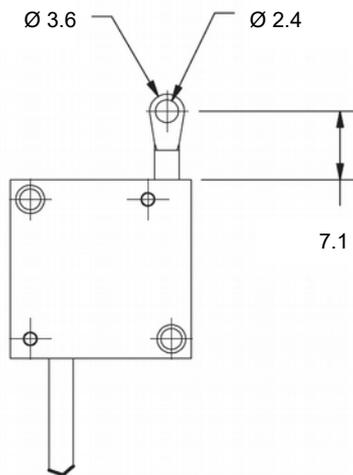
ZX-PA



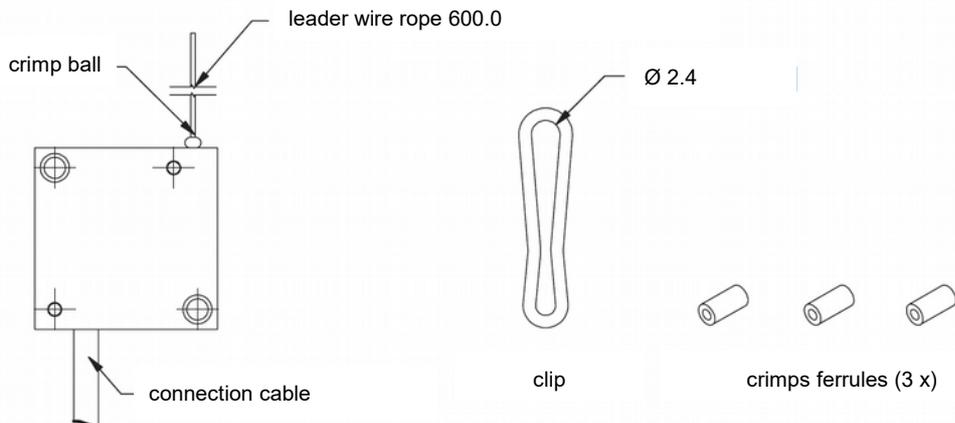
TECHNICAL DRAWING



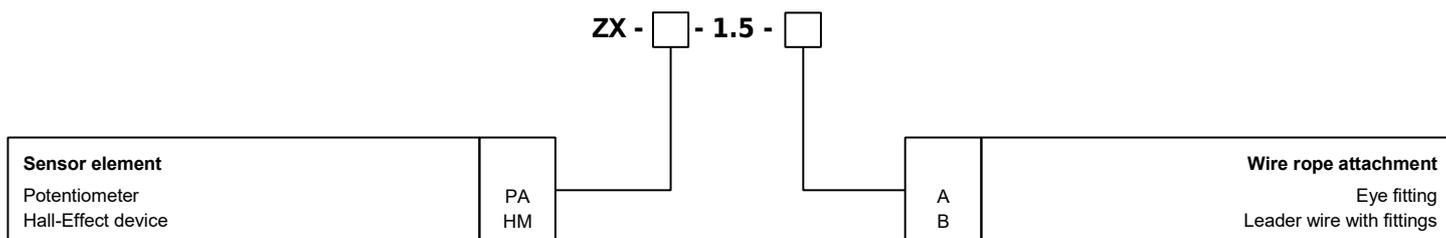
With eye fitting



Leader wire with fittings



ORDER CODE



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 ZX-HM must be installed away from sources of strong 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.



Subject to change without prior notice.

WayCon Positionsmesstechnik GmbH

email: info@waycon.de
internet: www.waycon.de

Head Office

Mehlbeerenstr. 4
82024 Taufkirchen
Tel. +49 (0)89 67 97 13-0
Fax +49 (0)89 67 97 13-250

Office Köln

Auf der Pehle 1
50321 Brühl
Tel. +49 (0)2232 56 79 44
Fax +49 (0)2232 56 79 45