

Micro length transducer

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DESCRIPTION

- Compact length transducer
- Voltage, current, potentiometric or CAN bus output
- Single channel. Possible to have it with double channel for PLd (EN13849-1) systems
- Waterproof, plastic, compact body
- Ninety degrees orientable fixing bracket
- PA12-coated 7x7 AISI 316 stainless steel rope
- Ninety degrees orientable electrical connection with M12x1 connectors
- Typical fields of application : mounted cranes, mobile cranes, aerial platforms, inside extensible outriggers, industriel automation and generic mobile machines.

TECHNICAL DATA

Power supply	from 0 to 33 V _{DC}	from 9 to 33 V _{DC}		
Outputs	10% to 92%. For 5.5m: 10% to 89%	0.5 ÷ 4.5 V _{DC}	CAN bus	from 4 to 20 mA
Maximum output current	-	10 mA	-	-
Current consumption ⁽¹⁾ [double]	3.3 [6.6] mA	30 [60] mA	-	30+20 [60+40] mA

⁽¹⁾ Device supply current (and max output load for 4 to 20 mA version) for single and double channel version

Measurable length	up to 4.0m	5.5m
Length sensor (linearity, hysteresis, repetibility) accuracy	± 0.50% FS	± 0.75% FS
Length transducer resolution	0.03% FS	
Length transducer temperature drift	< 100 ppm / °C	
Rope diameter (with coating)	0.63 (0.80) mm	
Rope breaking force	320 N	
Min/max force to pull out the rope	3.0/6.0 N	
Max wire speed	3 m/s	
Max wire acceleration	5 m/s ²	
Operating temperature	from -40 to +70 °C	
Maximum weight	0.60 kg	
Electric insulation	6500 V _{AC}	
Housing material	PA 6.6 + 35% glass reinforced and mineral filled	
Standard protection grade (electronics and spring box)	IP66	
CE conformity	EMC Directive: 2014/30/EU Machine Directive: 2006/42/EC	
EMC: Immunity Emission	EN 61000-6-2 EN61000-6-3	
Vibration resistance: Sinus	EN 60068-2-6: 5 g, 10 to 150 Hz	
Shock resistance: Shock	EN 60068-2-27: 30 g, 6 ms	
MTTFd (electronic board)	EN 13849-1: ≥ 100 years	
Maximum number of mechanical cycles	1x10 ⁵ (5x10 ⁵ on request)	

DIMENSIONS (mm)

