



6890.5010

Monitor for direction of rotation and standstill

Product features:

- Simple and compact unit to monitor forward / reverse motion and standstill of machines
- Universal pulse inputs for use with all common incremental encoders and sensors (HTL, RS422 or TTL)
- Two potential-free changeover relay outputs as well as two fast-responding power transistor outputs
- Wide input frequency range (up to 500 kHz) and a fast response time (<1 msec. with $f > 1$ kHz)
- Compact housing for simple snap fitting on top hat rails (EN 60715)
- Easy to set up by two front DIL switches
- 17 to 30 VDC power supply

Technical Specifications:		
Power supply:	Input voltage: Protection circuit: Ripple: Consumption: Connections:	17 ... 30 VDC reverse polarity protection ≤ 10 % bei 24 VDC approx. 30 mA (unloaded) screw terminal, 1.5 mm ² / AWG 16
Encoder supply:	Output voltage: Output current: Connections:	approx. 5.4 V max. 200 mA screw terminal, 1.5 mm ² / AWG 16
Incremental input:	Characteristic: Level: Channels: Frequency: Internal resistance: Connections:	PNP, NPN RS422: Differential voltage > 1 V TTL: LOW 0 ... 0.5 V, HIGH 2.5 ... 5 V HTL: LOW 0 ... 4 V, HIGH 9 ... 30 V A, /A, B, /B or A, B RS422 and TTL: max. 500 kHz (symmetrical) HTL and TTL: max. 350 kHz (asymmetrical) RS422 and TTL: Ri ≈ 10 kOhm HTL: Ri ≈ 4.7 kOhm screw terminal, 1.5 mm ² / AWG 16
Relay outputs:	Number of relays: Switching capacity: Switching delay: Connections:	2 potential free changeovers 30 VDC / 2 A or 115 VAC / 0.6 A or 230 VAC / 0.3 A approx. 5 ms screw terminal, 1.5 mm ² / AWG 16
Transistor outputs:	Number of outputs: Type: Switching voltage: Switching current: Switching delay: Protection circuit: Connections:	2 High-Side-Driver 7 ... 30 V max. 350 mA approx. 200 μs durable short circuit proof (not both outputs at the same time) screw terminal, 1.5 mm ² / AWG 16
Housing:	Material: Mounting: Dimensions (w x h x d): Protection class: Weight:	plastic 35 mm top hat rail (according to EN 60715) 22.5 x 102 x 102 mm / 0.8858 x 4.0157 x 4.0157 inch IP20 approx. 100 g
Ambient temperature:	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
Failure rate:	MTBF in years:	91.5 a (long-term usage at 60 °C / 140 °F)
Conformity & standards:	EMC 2014/30/EU: LV 2014/35/EU: (Only for option AC and RL) RoHS (II) 2011/65/EU RoHS (III) 2015/863:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1 EN 61010-1 EN IEC 63000