

MNH μ CON Digital Converter for Eddy Current Sensors



Processor controlled eddy current converter for MNH proximity sensors

- Very robust circuitry proven in the field, encapsulated in an aluminum die-cast housing
- Suitable for high temperature proximity sensors type MESSOTRON MNH, as well as for other eddy current sensors
- 16-point linearity correction curve, resulting in a significantly increased working range with improved linearity
- Temperature compensation by software, pre-loaded with values for MNH sensors
- Adjustment to different target materials and shapes via software

Technical Data

Applicable sensors	eddy current sensors series MNH and other manufacturers
Linearity error	< 1% (at 150% of the nominal measuring range of the MNH sensors)
Operating frequency	1MHz
Dynamic range	0...10 kHz (-3dB)
Storage temperature	-25...85°C
Operating temperature range	-30°C ... +70°C
Power supply	+9 ... +36 VDC, protected against reverse polarity
Power consumption	< 200mA (typical 50mA 24V)
Output 1	0...20mA / 4...20mA (load < 500 Ohm)
Output 2	0...10VDC / 2...10VDC (load >10 kOhm)
Housing	aluminum die cast housing, coated
Dimensions	L 80mm x W 75mm x H 57mm
Weight	0.5kg
Protection	IP66

Operation / adjustability

Setting by push button	zero point, sensitivity and threshold values (teach-in), reset
Sensor connection	Lemo "ERA.0E" series, triaxial connector
Power supply and signal output	spring-loaded terminals, 5-pin, encapsulated
LED display	status display (internal, threshold exceeded)
Configuration (software)	linearization and temperature compensation
Upper threshold	Adjustment range 0 ... 100% f.s. measuring range
Lower threshold	Adjustment range 0 ... 100% f.s. measuring range

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