

SMART CURRENT SENSOR

ESS 076



The ESS 076 smart current sensor measures the AC current of cables without contact. Measured data is output in analog (4-20 mA signal) or digital (IO-Link) form. Measured and processed data - such as power and energy - is made available to higher-level systems such as machine control systems or edge computers for condition monitoring via the IO-Link interface.

- Measures AC current up to 100 A contactless
- Cable diameter up to 11.4 mm
- Internal processing of measured values
- Analog and digital interface in one device



OVERVIEW TECHNICAL DATA

Device type	IO-Link products
Measurement signal	Amperage
Electrical protection	Reverse polarity protection, short-circuit proof, overvoltage protection
Protection class	III
Protection type	IP30
Casing	Plastic to UL94 V-0, light gray
AC/DC	DC
Operating voltage	24 V
Frequency	50; 60 Hz
Power consumption	0.95 W
Measurement range	100 A
Measurement range tolerance	± 0,5 A
Load resistance external	≤ 500 Ω
Operating temperature	-40 °F - 158 °F
Operating humidity	≤90 % rF
Storage humidity	≤90 % rF
Storage temperature	-40 °F - 185 °F
Connection	M12 round plug, IEC 61076-2-101, 4-pin, A-coded, shielded
Design	IO-Link (version 1.1), 4 - 20 mA
Mounting	Clip for 35 mm DIN rail, EN 60715
Installation position	any
Height	3.4 in
Width	1.4 in
Depth	1.8 in
Weight	3.5 oz



Note	Conductor diameter 11.4 mm. Tolerances measured at DC 24 V.
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PRODUCT VARIANTS

Article number	
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TECHNICAL DRAWINGS