SMART CURRENT SENSOR

ESS 076 | 07600.2-00



The ESS 076 smart current sensor measures the AC current of cables without contact. Measured data is output in analogue (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
- Analogue/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 grey
AC/DC	DC
Operating voltage	24 V
Frequency	50; 60 Hz
Power consumption	0,95 W
Measurement range	0 A - 100 A
Measurement range tolerance	± 0,5 A
Load resistance external	≤ 500 Ω
Operating temperature	-40 °C - 70 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-40 °C - 85 °C
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	variable
Height	86 mm
Width	35 mm
Depth	46,5 mm
Weight	100 g

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

TECHNICAL DRAWINGS



