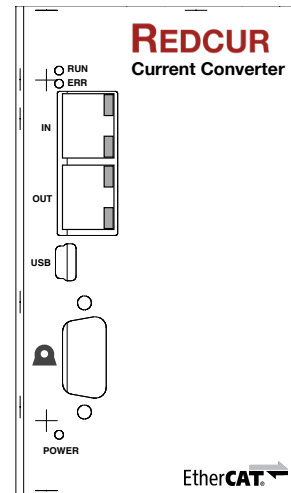


EtherCAT Current Converter

Brings LEM High Precision Current Transducers to EtherCAT.

Features

- 24-Bit A/D conversion
- Power Supply for Transducer
- Metal housing for high EMC immunity
- Configurable through CoE
- Calibration Service (optional)
- Supports LEM IT, IN and ITN series
- Transducer Overload Protection



Standards/Compliance

- EtherCAT®
- According to EN61010-1: 2010

Specification

AC Line Input	100-240V AC, 50/60Hz
Power Consumption	2,5W + LEM Sensor (see www.lem.com)
Mounting	DIN Rail
Weight	0,87kg
Dimensions (HxWxD) in mm	120x67x113
Minimum EtherCAT Cycle Time	50µs
EtherCAT Data Transfer	Single, Bulk transfer up to 16 Measurements
Resolution	24 Bit
ADC Technology	$\Delta\Sigma$ (Delta-Sigma)
Filtering	Lowpass ~0.5 x ADC Data Rate (Anti Aliasing)
Accuracy	0,005% of Measuring Range (DIN ISO 17025 or DAKKS Calibration optional)
Maintenance Interface	USB
Sensor Interface	LEM proprietary D-SUB9 Pin

EtherCAT Parameters

- Averaged Current Value
- Array of 16 Current Values for Bulk Transfer
- Operational Status / Overload Protection of the LEM transducer (plus LED indicator)
- Overrun detection of AD converter (plus LED indicator)
- Offset - adjustable (manual/automated)

Product Variants

Variant	Suitable Transducer
ECC-IT60	IT 60-S
ECC-IT200	IT 200-S
ECC-IT400	IT 400-S
ECC-IN500	IN 500-S
ECC-ITN600	ITN 600-S
ECC-IT700	IT 700-S
ECC-IT1000	IT 1000-S
ECC-IN1000	IN 1000-S
ECC-IN2000	IN 2000-S

Other LEM transducers of IN/IT/ITN series upon request

Cables

The following length restrictions apply to the cable connecting the ECC with the LEM transducer:

Length	Wire Cross Section (minimum)
≤ 5 m	0,34 mm ²
> 5m ≤ 10m	0,75 mm ²
> 10m	Not supported!

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