



30 YEARS
YOUNG
1982.2012

lika



EtherCAT®

Single turn encoder
Multi turn "easy", compact and convenient
Multi turn, high resolution
Linear encoder, magnetic sensing

#encoder #ethercat #singleturn #multiturn #linearencoder #62,5µs #IP67

ROTACOD

Absolute encoders with Ethercat interface

lika

Series

EM58 • HS58 • HM58 EC



- Single turn 18 bit
- Multi turn "easy" 13x14 bits
- Multi turn hi-res 16x14 bits
- Cycle time only 62,5 μ s (position refresh)
- Fast and precise optical sensing



EM58 • HS58 • HM58 EC

ENVIRONMENTAL SPECIFICATIONS

| | |
|------------------------------|---|
| Shock: | 100 g, 6 ms |
| Vibrations: | 10 g, 5-2000 Hz |
| Protection: | IP65 |
| Operating temperature range: | -25°C +85°C (-13°F +185°F) |
| Storage temperature range: | -40°C +100°C (-40°F +212°F) (98% R.H.without condensation) |

MECHANICAL SPECIFICATIONS

| | |
|--|--|
| Dimensions: | see datasheet |
| Shaft diameter: | Ø 6, 8, 9.52, 10, 12 mm |
| Hollow shaft diameter: | Ø 14, 15 mm |
| Reducing sleeves BR1-xx from Ø 15 mm to: | Ø 6, 8, 9.52, 10, 11, 12 mm |
| Shaft loading (axial, radial): | 40 N max. |
| Shaft rotational speed: | 6000 rpm max. |
| Bearings life: | 400 x 10 ⁶ rev. min. (10 ⁹ rev. min. with shaft loading of 20 N max.) |
| Weight: | ~ 350 g (12,3 oz) |

ELECTRICAL SPECIFICATIONS

| | |
|--------------------------|---|
| Resolution: | HS: 262144 cpr EM: 8192 cpr x 16384 turns HM: 65536 cpr x 16384 turns |
| Accuracy: | HS, HM: $\pm 0,007^\circ$ - EM: $\pm 0,5^\circ$ |
| Counting frequency: | 150 kHz max. |
| Power supply: | +10V +30V |
| Power consumption: | 2,2 W max. |
| Interface: | EtherCAT, CoE (CANopen over EtherCAT) |
| Programmable parameters: | see user manual |
| Communication modes: | Freerun, Sync-mode, Distributed clock |
| Cycle time: | $\geq 62,5 \mu$ s |
| Protection: | against inversion of polarity and short-circuit |
| EMC: | electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4 |
| Optoelectronic life: | 100.000 h min. |

ACCESSORIES

| | |
|---------------------|--|
| PAN/PGF: | flexible couplings |
| BR1: | reducing sleeves |
| LKM-386: | fixing clamps |
| EC-M12ME-EC-GN-xx: | M12 cordset with x m cable |
| EC-M12PP-LK-PBS-xx: | M12 power supply cordset with x m cable |

POSICONTROL

EtherCAT converter for linear and rotary encoders

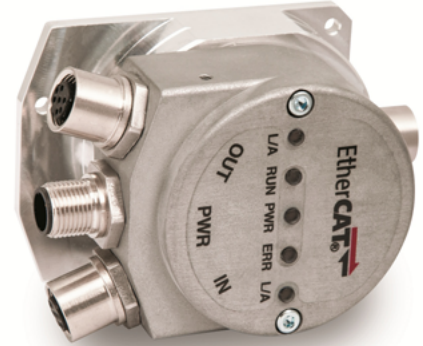
lika

Series

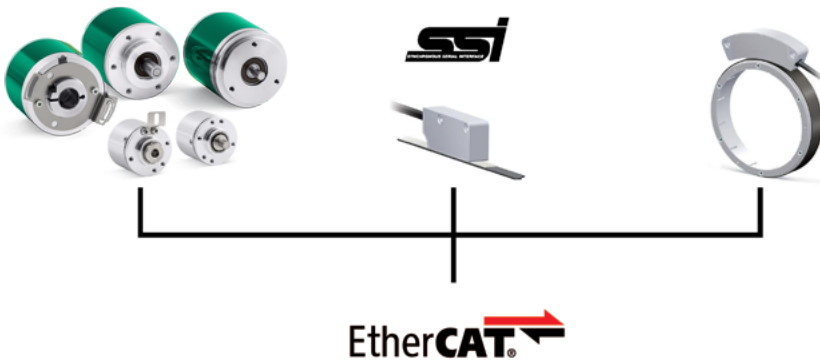
IF55

EtherCAT  CE 

- EtherCAT converter for SSI encoders
- Linear & rotary resolution scaling
- Accept MSB & LSB aligned SSI protocols up to 30 bit
- All typical encoder functions available
- Position output
- IP65 protection
- DIN-rail snap-on installation possible



IF55



| Recommended encoder series | |
|------------------------------------|-------------------|
| Linear encoder, up to 0.002mm | SMA2 series |
| Rotary miniature encoder | AM36, MM36 series |
| Bearingless encoder. | SMRA / MRA series |
| Contactless encoder for round axes | SMLA |

FUNCTIONS

Position output, scaling function, preset, offset, counting direction, diagnostics

ENVIRONMENTAL SPECIFICATIONS

| | |
|------------------------------|----------------------------|
| Operating temperature range: | -25°C +85°C (-13°F +185°F) |
| Storage temperature range: | -25°C +85°C (-13°F +185°F) |
| Protection: | IP65 |

MECHANICAL SPECIFICATIONS

| | |
|-------------------------|--|
| Dimensions: | see drawing |
| Electrical connections: | SSI input M12 8 pin connector Output M12 connectors according to bus specifications |
| Weight: | ~ 250 g |

ELECTRICAL SPECIFICATIONS

| | |
|--------------------|--|
| Power supply: | +10Vdc +30Vdc |
| SSI input: | single turn: 18 bit max. multi turn: 16 x 16 bit, max. 30 bit linear sensors: 30 bit max., resolution 1µm ÷ 5000µm code: binary or gray, LSB or MSB aligned protocol, max. 32 clock |
| Output interfaces: | EtherCAT: ETG.1000, CoE, FoE, EtherCAT state machine |

Other products from Lika...



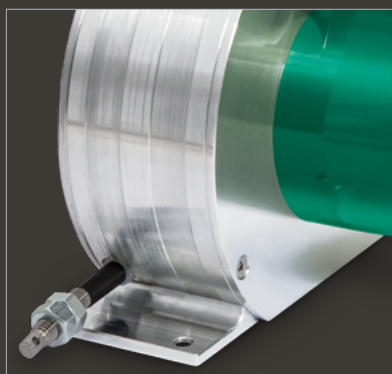
Rotary encoders



Rotary magnetic encoders, Modules



Linear encoders



Draw-wire encoders



Rotary actuators, quick change-over



Flexible & transmission couplings

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