



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

- 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

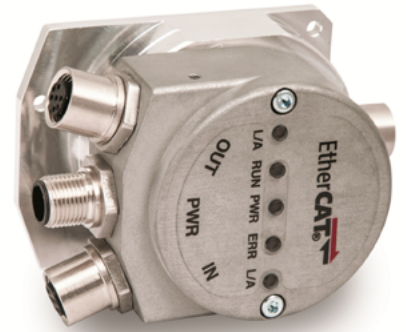
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Series

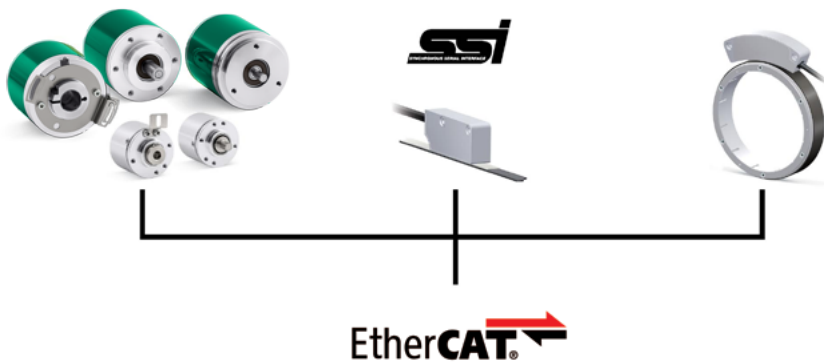
IF55

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...



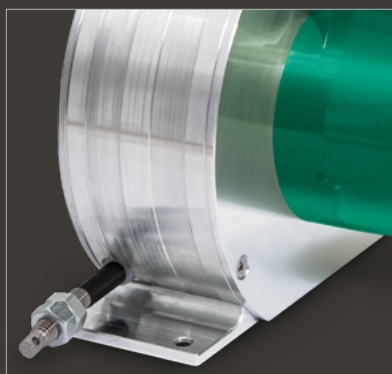
Rotary encoders



Rotary magnetic encoders, Modules



Linear encoders



Draw-wire encoders



Rotary actuators, quick change-over



Flexible & transmission couplings

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