



30 YEARS
YOUNG
1982.2012



Smart encoders & actuators



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

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 µs (position refresh)
- Fast and precise optical sensing
- Resistant against magnetic fields



HMx58x 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 kg (12,3 oz)

ELECTRICAL SPECIFICATIONS

Resolution:	HS: 262144 cpr EM: 8192 cpr x 16384 turns HM: 65536 cpr x 16384 turns
Accuracy:	HS, HM: ± 0,007° - EM: ± 0,5°
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:	≥ 62,5 µs
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-GN-EC-xx:	M12 cordset with x m cable
EC-M12PP-LK-PBS-xx:	M12 power supply cordset with x m cable

LINECOD

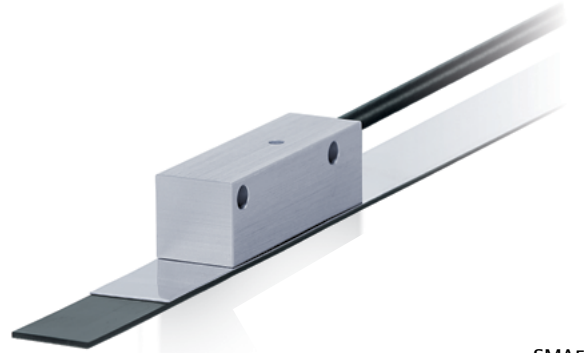
Absolute linear encoder with Ethercat interface

Series

SMA5



- Absolute linear position sensor
- Resolution up to 5 μm
- Suitable for harsh environment, IP67



SMA5

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-40°C +100°C (-40°F +212°F)
Protection:	IP67

MECHANICAL SPECIFICATIONS

Dimensions:	see datasheet
Housing:	aluminium
Connection:	M12 8 pin inline plug (to external gateway)
Gap sensor-magnetic tape (without cover strip):	0,1 ÷ 1,5 mm
Travel speed:	5 m/s max. (mechanical)
Resolution:	0,1 / 0,05 / 0,01 / 0,005 mm
System accuracy:	± 20 μm max.
Repeatability:	±1 increment
Measurement length:	5,05 m max. Measurement length = tape length - 70 mm

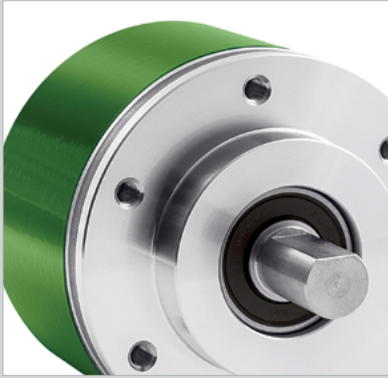
ELECTRICAL SPECIFICATIONS

Power supply:	+10Vdc ÷ +30Vdc
Power consumption:	2 W max.
Output current (per channel):	40 mA max.
Interface:	EtherCAT, CoE (CANopen over EtherCAT)
Programmable parameters:	see user manual
Communication modes:	Freerun, Sync-mode, Distributed clock
Cycle time:	≥ 62,5 μs
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4

ACCESSORIES

MTA5:	magnetic tape
IFEC:	EtherCAT gateway

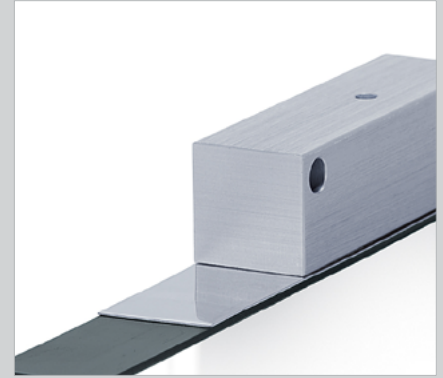
Other products from Lika...



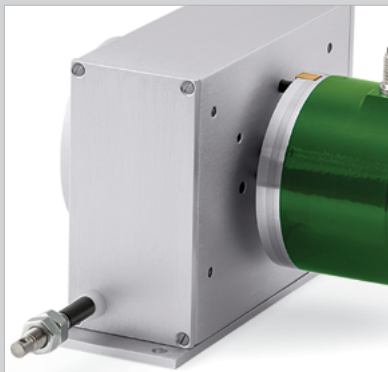
Rotary encoders



Rotary magnetic encoders, Modules



Linear encoders



Draw-wire encoders



Rotary actuators, quick change-over



Flexible & transmission couplings

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