

Series

EM58 • HS58 • HM58 Ethernet

Replacement of EM58/HS58/HM58 Profinet available as EX058/EXM58 Profinet with special version /S684 (only RT, not IRT mode) valid for units with MAC address 10-B9-FE-xx-xx-xxx.

PHASE OUT

This product is phasing out and not recommended for new designs. It will be available for spare parts until further notice.

Please read our NPC25012 (notification of product change)

Closest replacement product is: EXM59 & EX058 series

ENVIRONMENTAL SPECIFICATIONS

Shock:	250 g, 6 ms acc. to CEI EN 60068-2-27
Vibrations:	10 g, 5-2000 Hz acc. to CEI EN 60068-2-6
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 drawing
Shaft diameter:	Ø 6, 8, 9.52, 10, 12 mm
Hollow shaft diameter:	Ø 14, 15 mm
Reducing sleeves BR1-xx from Ø15 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: ± 0,007° - EM: ± 0,5°
Power supply:	+10V +30V
Power consumption:	3 W max.
Interface & specification:	Ethernet/IP Vol. 2 Ed. 1.22, CIP Spec. Vol. 1 Ed. 3.21, Encoder profile 22h Sync-mode, Ring redundancy, Segment SDO transfer, Multiplexing Profinet IO RT2, RT3 (Isochronous)
Programmable parameters:	see user manual
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4

MATERIALS

Flange:	anticorodal, UNI EN AW-6082
Housing:	anticorodal, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305



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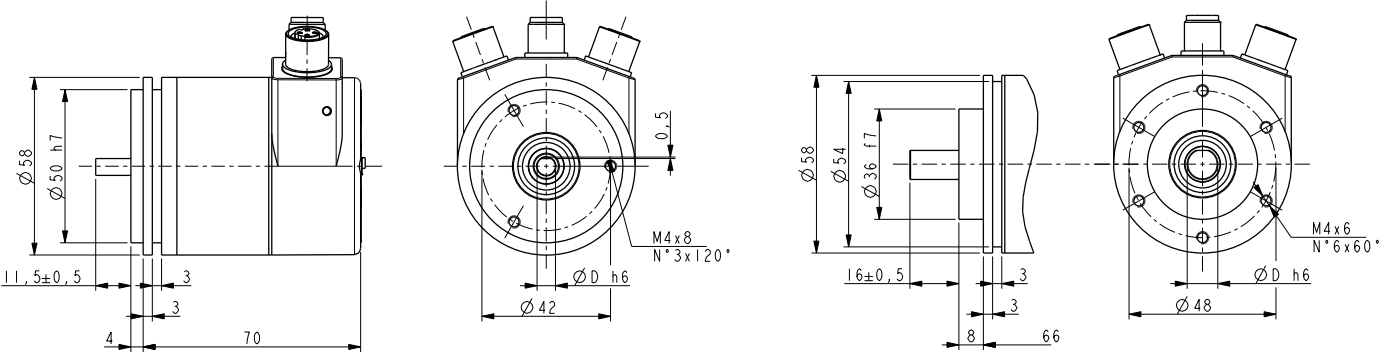


EtherNet/IP™



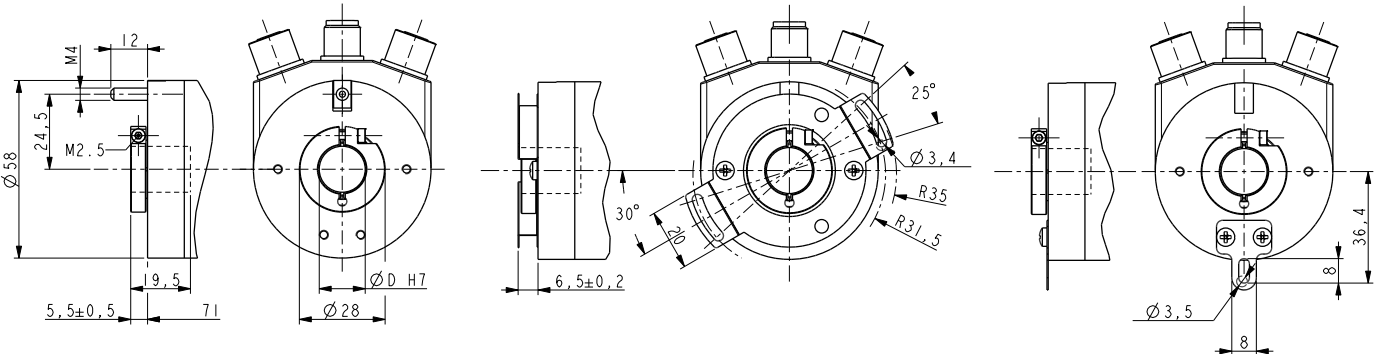
ACCESSORIES

PAN/PGF:	flexible couplings
BR1:	reducing sleeves
LKM-386:	fixing clamps
EC-M12ME-EC-GN-050:	M12 bus in/out cordset 5 m
EC-M12ME-EC-GN-100:	M12 bus in/out cordset 10 m
EXC-M12ME-EC-GN-050-RJ:	M12 + RJ bus in/out cordset 5 m
EXC-M12ME-EC-GN-100-RJ:	M12 + RJ bus in/out cordset 10 m
EC-M12PP-LK-PBS-050:	M12 Pwr cordset 5 m
EC-M12PP-LK-PBS-100:	M12 Pwr cordset 10 m
E-M12FC:	M12 connector (power supply)
E-M12MEC:	M12 connector (bus IN/OUT)



EM58 • HS58 • HM58

EM58S • HS58S • HM58S



EMC58 • HSC58 • HMC58

EMC59 • HSC59 • HMC59

EMC60 • HSC60 • HMC60

Document release	Date	Description
1.1	18.07.2025	Phase out EM58, HS58 & HM58 EtherCAT (EC2/PL2) encoders series, NPC25012
1.0	September 2023	Phase out and replacement version (Profinet)



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Smart encoders & actuators

To
all Business partners

k. attn. Purchasing Manager
Technical Manager
Obsolescence Manager

Carrè, 22.07.2025
Our ref.: NPC25012 EtherCAT Encoders Series

Subject: Notification of Change to:

EM58, HS58 & HM58 EtherCAT (EC2) encoders series

Dear Customer,

In the process of continuous improvement to the quality, reliability and competitiveness of our products it is necessary to make occasional updates or changes to one of our products.

Details thereof are given in this letter and/or attachment. We would be happy to answer any queries you might have.

Change Category

☐ Minor Change	☒ Major Change
☒ End of Life Notification / Product obsolete	☐ Datasheet specification Change
☐ Design Change	☐ Ordering code Change
☐ Material / Component Change	☐ Process / Manufacturing Facility Change

Description of Change

EM58, HS58 and HM58 with EtherCAT interface are now no longer available for spare parts.

These products will be preplaced by the new EXM59 & EX058 series (see attached datasheet).

All changes and advantages of these new products are listed below.

The Crossreference shows the affected part numbers, including special versions (final code /Sxxx).

Please reference also to our previous communication NPC23003 EXM58-EX058 series Ethernet dated 20.03.2023.

Description	Before	Now
Crossreference	EM58-13-14-EC2-xx-PT-R EM58S-13-14-EC2-xx-PT-R EMC58-13-14-EC2-xx-PT-R EMC59-13-14-EC2-xx-PT-R HS58-18-00-EC2-xx-PT-R HS58S-18-00-EC2-xx-PT-R HSC58-18-00-EC2-xx-PT-R HSC59-18-00-EC2-xx-PT-R HM58-16-14-EC2-xx-PT-R HM58S-16-14-EC2-xx-PT-R HMC58-16-14-EC2-xx-PT-R HMC59-16-14-EC2-xx-PT-R	EXM58-13-14-EC4-xx-PT-A EXM58S-13-14-EC4-xx-PT-A EXM58C-13-14-EC4-xx-PT-A EXM59C-13-14-EC4-xx-PT-A EX058-18-00-EC4-xx-PT-A EX058S-18-00-EC4-xx-PT-A EX058C-18-00-EC4-xx-PT-A EX059C-18-00-EC4-xx-PT-A EX058-16-14-EC4-xx-PT-A EX058S-16-14-EC4-xx-PT-A EX058C-16-14-EC4-xx-PT-A EX059C-16-14-EC4-xx-PT-A
EtherCAT interface performance	Position jitter in Freerun mode max. 100us Cycle time in SM3 mode = 62.5us Jitter in SM3 = 7.2us Cycle time in DC mode = 62.5us Jitter in DC = 200ns PDO = position no EoE no Webserver available Firmware update only over FoE in BOOTSTRAP state	Position jitter in Freerun mode max. 100us Cycle time in SM3 mode = 125us Jitter in SM3 = variable value Cycle time in DC mode = 125us Jitter in DC = variable value PDO = position + velocity EoE protocol available Webserver available in PREOP, SAFEOP and OP over EoE Firmware updates available over Webserver & over FoE in PREOP state



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Customer Impact

☒ Customer should verify this document.	☒ Customer should verify impacts on mechanical or electrical interface
☒ Sampling, testing & approval is recommended.	☐ No direct alternative available. Please contact your sales representative

This change is effective immediately with no possibility of last orders.

You are welcome to address your sales engineer for technical issues, and certainly our sales assistants for any ordering issue.

Best Regards
LIKA ELECTRONIC Srl
Sales & Marketing team