

Smart encoders & actuators

To
all Business partners

k. attn. Purchasing Manager
Technical Manager
Obsolescence Manager

Carrè, 04.12.2025
Our ref.: NPC25001 ES58-EM58-HS58-HM58-HSCT-HMCT

Subject: Notification of Change to:

ES58, EM58, HS58, HM58, HSCT & HMCT 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

Lika has designed new absolute encoders with improved magnetic and optical singleturn sensing and our EHG multiturn (energy harvesting generator) technology platform.

Compared to the old ES58, EM58, HS58, HM58, HSCT & HMCT series the new products have better performance and a more modern design.

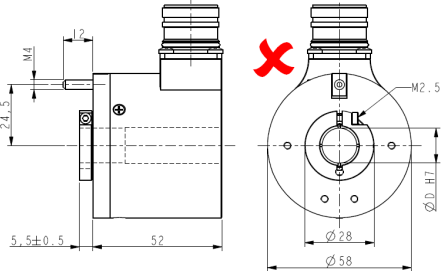
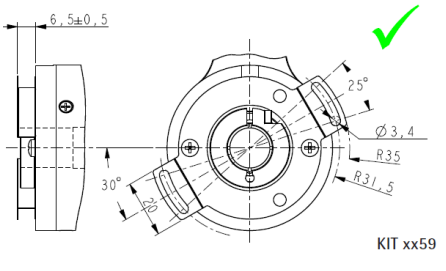
The above-mentioned products will gradually be replaced by the new EHM58, EHO58 and EHCT59 series (see attached datasheets). In case of HSCT and HMCT the replacement will be immediate.

Special "replacement" models will be created to grant maximum backward compatibility for spare part purposes. These models will be based on the above-mentioned new series, but offer bigger options variety. They can be identified with R.EHM58, R.EHO58 and R.EHCT59.

Advantages of these new products and details of changes are listed below.

Smart encoders & actuators

Description	Before	Now
ES58 bit parallel EM58 bit parallel HS58, HM58 FB series HM58 P series EM58 PA series EM58 TA series	ES58 with BY2, GY2, BN2, GN2 output EM58 with BY2, GY2, BN2, GN2 output HS58, HM58 with FB2 output (fieldbus) HM58 with PS, PY output (progr.) EM58 with PA2 output (progr. analogue) EM58 with Tlx, TVx output (analogue)	These families are NOT affected. A future replacement model will be prepared and presented in case of phasing-out.
ES58, EM58 series (*) with SSI interface only (BS2, GS2, BA2, GA2) (*) including versions ES58, ES58S, ESC58, ESC59, ESC60, EM58, EM58S, EMC58, EMC59, EMC60	ES58/EM58-aa-bb-ccc-dd-ee-fggg ES58S/EM58S-aa-bb-ccc-dd-ee-fggg ESC58/EMC58-aa-bb-ccc-dd-ee-fggg ESC59/EMC59-aa-bb-ccc-dd-ee-fggg ESC60/EMC60-aa-bb-ccc-dd-ee-fggg aa = any singleturn resolution bb = any multiturn resolution cc = BS2, GS2, BA2, GA2 interface dd = shaft diameter (no change) ee = PT = IP65, -25°C +85°C PK = IP65, -40°C +100°C fggg = connection type (no change)	R.EHM58-aa-bb-ccc-dd-ee-fggg R.EHM58S-aa-bb-ccc-dd-ee-fggg R.EHM58C-aa-bb-ccc-dd-ee-fggg R.EHM59C-aa-bb-ccc-dd-ee-fggg R.EHM59C-aa-bb-ccc-dd-ee-fggg +KIT-xx60 aa = 1-to-1 replacement will be offered bb = 1-to-1 replacement will be offered cc = 1-to-1 repl. BS4, GS4, BA4, GA4 offered dd = 1-to-1 replacement will be offered ee = PK = IP65, -40°C +100°C fggg = 1-to-1 replacement will be offered
HS58, HM58, HSCT, HMCT series (*) with SSI interface only (BA2, GA2, G12, G62) (*) including versions HS58, HS58S, HSC58, HSC59, HSC60, HM58, HM58S, HMC58, HMC59, HMC60	HS58/HM58-aa-bb-ccc-dd-ee-fggg HS58S/HM58S-aa-bb-ccc-dd-ee-fggg HSC58/HMC58-aa-bb-ccc-dd-ee-fggg HSC59/HMC59-aa-bb-ccc-dd-ee-fggg HSC60/HMC60-aa-bb-ccc-dd-ee-fggg HSCT/HMCT-aa-bb-ccc-dd-ee-fggg aa = any singleturn resolution bb = any multiturn resolution cc = BA2, GA2, G12, G62 interface dd = shaft diameter (no change) ee = PT = IP65, -25°C +85°C fggg = connection type (no change)	R.EH058-aa-bb-ccc-dd-ee-fggg R.EH058S-aa-bb-ccc-dd-ee-fggg R.EH058C-aa-bb-ccc-dd-ee-fggg R.EH059C-aa-bb-ccc-dd-ee-fggg R.EH059C-aa-bb-ccc-dd-ee-fggg +KIT-xx60 R.EHCT-aa-bb-ccc-dd-ee-fggg aa = 1-to-1 replacement will be offered bb = 1-to-1 replacement will be offered cc = 1-to-1 repl. BA4, GA4, G14, G64 offered dd = 1-to-1 replacement will be offered ee = PK = IP65, -40°C +100°C fggg = 1-to-1 replacement will be offered
HS58, HM58 HSCT, HMCT series (*) with SSI interface only (BG2, GG2) (*) including versions HS58, HS58S, HSC58, HSC59, HSC60, HM58, HM58S, HMC58, HMC59, HMC60	HS58/HM58-aa-bb-ccc-dd-ee-fggg HS58S/HM58S-aa-bb-ccc-dd-ee-fggg HSC58/HMC58-aa-bb-ccc-dd-ee-fggg HSC59/HMC59-aa-bb-ccc-dd-ee-fggg HSC60/HMC60-aa-bb-ccc-dd-ee-fggg HSCT/HMCT-aa-bb-ccc-dd-ee-fggg aa = any singleturn resolution bb = any multiturn resolution cc = BG2, GG2 interface dd = shaft diameter (no change) ee = PT = IP65, -25°C +85°C fggg = connection type (no change)	EH058-aa-bb-ccc-dd-ee-fggg EH058S-aa-bb-ccc-dd-ee-fggg EH058C-aa-bb-ccc-dd-ee-fggg EH059C-aa-bb-ccc-dd-ee-fggg EH059C-aa-bb-ccc-dd-ee-fggg +KIT-xx60 R.EHCT-aa-bb-ccc-dd-ee-fggg aa = 1-to-1 replacement will be offered bb = 1-to-1 replacement will be offered cc = 1-to-1 replacement BG4, GG4 offered dd = 1-to-1 replacement will be offered ee = PK = IP65, -40°C +100°C fggg = 1-to-1 replacement will be offered

HS58, HM58, HSCT, HMCT series (*) with SSI interface only (BV2, GV2, SC1, SC2) (*) including versions HS58, HS58S, HSC58, HSC59, HSC60, HM58, HM58S, HMC58, HMC59, HMC60	HS58/HM58-aa-bb-ccc-dd-ee-fggg HS58S/HM58S-aa-bb-ccc-dd-ee-fggg HSC58/HMC58-aa-bb-ccc-dd-ee-fggg HSC59/HMC59-aa-bb-ccc-dd-ee-fggg HSC60/HMC60-aa-bb-ccc-dd-ee-fggg HSCT/HMCT-aa-bb-ccc-dd-ee-fggg aa = any singleturn resolution bb = any multiturn resolution cc = BV2, GV2, SC1, SC2 interface dd = shaft diameter (no change) ee = PT = IP65, -25°C +85°C fggg = connection type (no change) BV2 = SSI binary + 2048PPR sin/cos GV2 = SSI gray + 2048PPR sin/cos SC1 = BiSS-C + 2048PPR sin/cos, 5Vdc SC2 = BiSS-C + 2048PPR sin/cos, 10-30V	R.EH058-aa-bb-ccc-dd-ee-fggg R.EH058S-aa-bb-ccc-dd-ee-fggg R.EH058C-aa-bb-ccc-dd-ee-fggg R.EH059C-aa-bb-ccc-dd-ee-fggg R.EH059C-aa-bb-ccc-dd-ee-fggg +KIT-xx60 R.EHCT-aa-bb-ccc-dd-ee-fggg aa = 1-to-1 replacement will be offered bb = 1-to-1 replacement will be offered cc = see differences explained below dd = 1-to-1 replacement will be offered ee = PK = IP65, -40°C +100°C fggg = 1-to-1 replacement will be offered BV2 = SSI binary + 512PPR sin/cos (*) GV2 = SSI gray +512PPR sin/cos (*) SC4 = BiSS-C +512PPR sin/cos, 5-30Vdc (*) SC4 = BiSS-C + 512PPR sin/cos, 5-30Vdc (*) (*) 1024PPR sin/cos for R.EHCT59
Housing length (mm)	ES58, EM58 HS58, HM58 axial connection = 48mm radial connection = 48mm ES58S, EM58S HS58S, HM58S axial connection = 44mm radial connection = 44mm ESC58, ESC59, ESC60 EMC58, EMC59, EMC60 HSC58, HSC59, HSC60 HMC58, HMC59, HMC60 axial connection = 49mm radial connection = 49mm HSCT, HMCT radial connection = 52mm	R.EHM58 R.EH058 axial connection = 58mm radial connection = 48mm R.EHM58S R.EH058S axial connection = 58mm radial connection = 48mm R.EHM58C, R.EHM59C R.EHM58C, R.EHM59C R.EH058C, R.EH059C, R.EH059C+KIT-xx60 R.EH058C, R.EH059C, R.EH059C+KIT-xx60 axial connection = 59mm radial connection = 49mm R.EHCT59 radial connection = 41mm
HSCT, HMCT series Antirotation pin xx58-style		Temporarily not available. Only fixing plate xx59 style available.  KIT xx59



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Smart encoders & actuators

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

Spare part orders of the old models will be possible for limited q.ties.

New orders should be converted immediately to the new series.
Our sales team will assist you with the conversion of part numbers.

Selected special & customized versions will be still available. → Call your sales contact for detailed information

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

- Replacement version of:

ES58, ES58S, ESC58, ESC59 → EHM58

EM58, EM58S, EMC58, EMC59 → EHM58

HS58, HS58S, HSC58, HSC59 → EH058

HM58, HM58S, HMC58, HMC59 → EH058



EH058 • EHM58

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:	IP67, IP65 shaft side
Operating temperature range:	-40°C + 100°C (-40°F + 212°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
Shaft loading (axial, radial):	20 N max.
Shaft rotational speed:	12000 rpm
Starting torque (at 20°C):	0,1 Ncm
Electrical connections:	M12, M23 plug or cable output 1 m (3.3 ft)
Weight:	~ 100 g (3,5 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

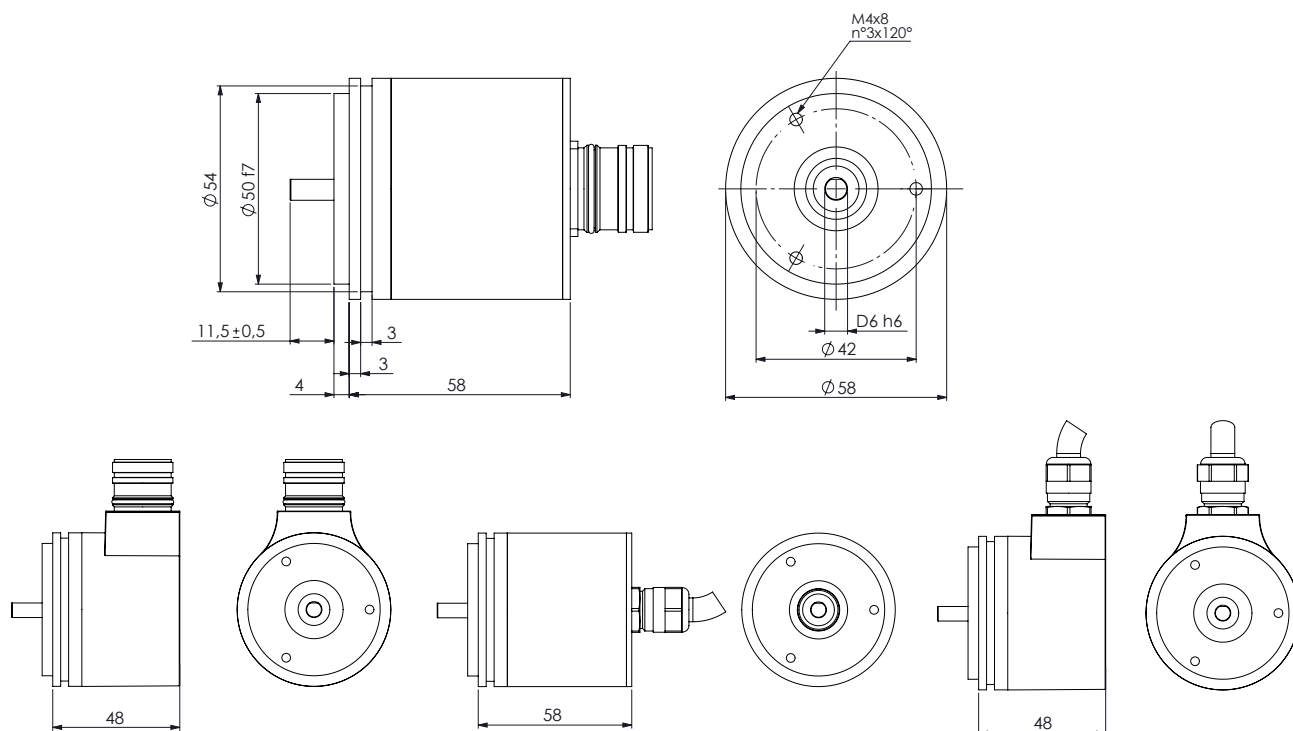
Resolution:	singleturn up to 24 bit (16777216 cpr) multiturn up to 16 bit (65536 turns) <i>others on request</i>
Accuracy:	EHM58 ± 0,09°; EH058 ± 0,01°
Output circuits:	SSI (RS422), clock rate < 4 MHz - Data refresh rate 8 µec. BiSS-C, clock rate < 10 MHz - Costant processing time (t _{busy} = 8 µec.) AB Push-Pull/Line Driver 1024 PPR
Output code:	Gray, Binary
Power supply:	+5Vdc +30Vdc
Power consumption:	0,5 W
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, according to EN 61000-4-2 EN 61000-4-4
Functions:	• Counting direction (input) • Zero setting/Preset (input)

MATERIALS

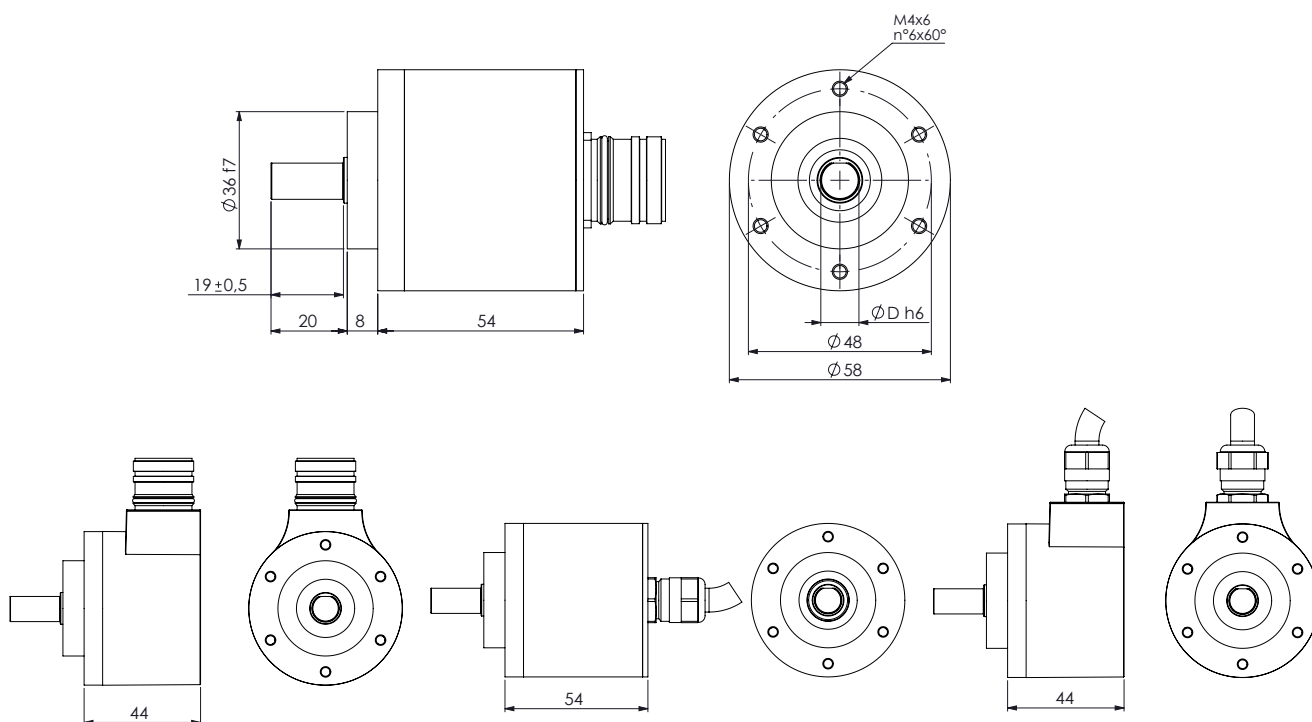
Flange:	anticorodal, UNI EN AW-6082
Housing:	anticorodal, UNI EN AW-6082 or zamac die cast
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305

ACCESSORIES

PAN/PGF:	flexible couplings
BR1:	reducing sleeves
LKM-386:	fixing clamps
KIT xx60:	fixing plate (ESC60/EMC60 compatible)
E-M12F8:	M12 8 pin mating connector
EC-M12F8-LK-M8-L050:	M12 8 pin cordset, 5 m cable
EC-M12F8-LK-M8-L100:	M12 8 pin cordset, 10 m cable
EC-M12F8-LK-M8-L150:	M12 8 pin cordset, 15 m cable
EC-M12F8-LK-M8-L200:	M12 8 pin cordset, 20 m cable
E-M12F12:	M12 12 pin mating connector
EC-M12F12-LK-T12-L050:	M12 12 pin cordset, 5 m cable
EC-M12F12-LK-T12-L100:	M12 12 pin cordset, 10 m cable
EC-M12F12-LK-T12-L200:	M12 12 pin cordset, 20 m cable
EPFL121H:	M23 12 pin mating connector
EC-CR12F-S28-T12-L100:	M23 12 pin cordset, 10 m cable
EC-CR12F-S28-T12-L200:	M23 12 pin cordset, 20 m cable



R.EHM58 • R.EH058



R.EHM58 • R.EH058

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 NPC25001 (notification of product change).

Closest replacement product is: EH058 or R. EH058 (depending on interface, contact our customer service for more information).



HS58 • HS58S • HSC58

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:	IP67, IP65 shaft side
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 Ø 15 mm to:	Ø 6, 8, 9.52, 10, 11, 12
Shaft loading (axial, radial):	40 N max.
Shaft rotational speed:	12000 rpm, 9000 rpm continuous operation
Starting torque (at 20°C):	HS58: 0,15 Ncm (typ.) HS58S, HSCxx: 0,4 Ncm (typ.)
Bearings life:	400 x 10 ⁶ rev. min. (10 ⁹ rev. min. with 20 N shaft loading max.)
Electrical connections:	M12, M23 plug or cable output 2 m (6.56 ft)
Weight:	~ 300 g (10,6 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

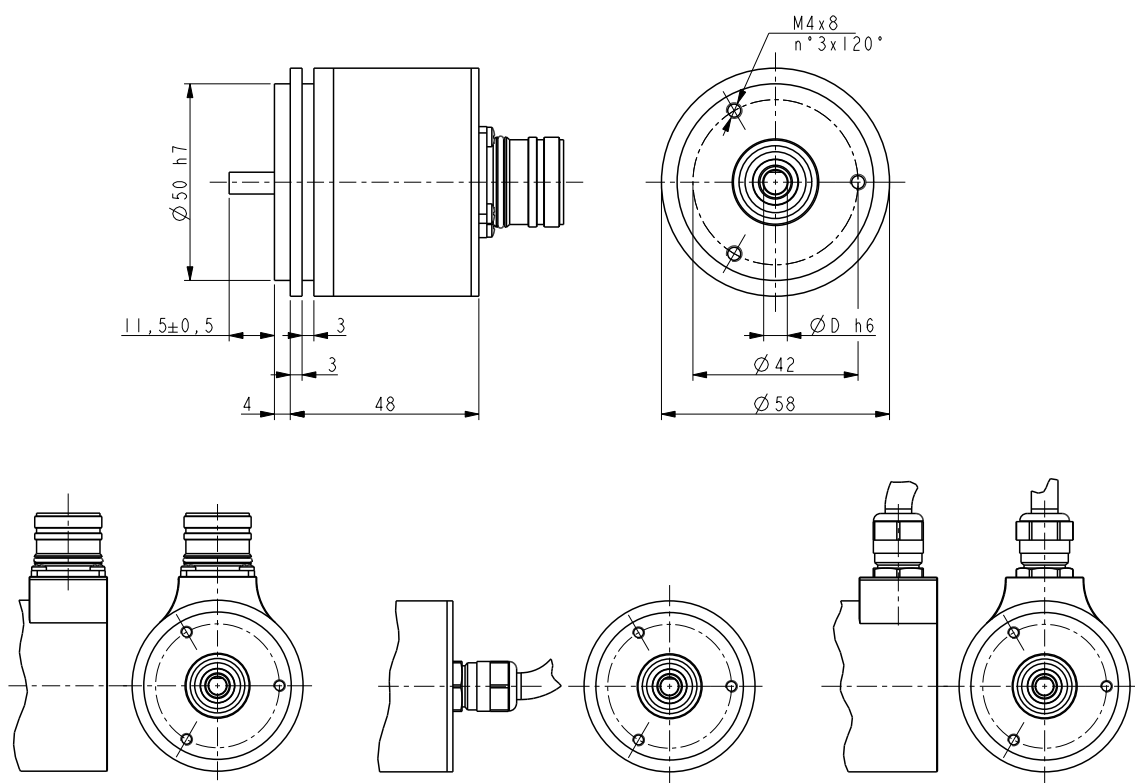
Resolution:	SSI, BiSS: 20 bit max. sin/cos: 2048 PPR, 4096 PPR (only with 20 bit) AB, /AB: 2048, 4096, 8192
Accuracy:	± 0,01°
Output circuits:	SSI, SSI + 1Vpp, SSI + Line Driver 5V, BiSS (B-mode, C-mode) + 1Vpp
Output code:	Gray, Binary
Counting frequency:	220 kHz max.
Power supply:	+5Vdc ± 5%, +10V +30V
Power consumption:	0,9 W
Protection:	against inversion of polarity, short-circuit
EMC:	electro-magnetic immunity, according to: EN-61000-4-2 EN-61000-4-4
Functions:	• Counting direction (input) • Zero setting/Preset (input)

MATERIALS

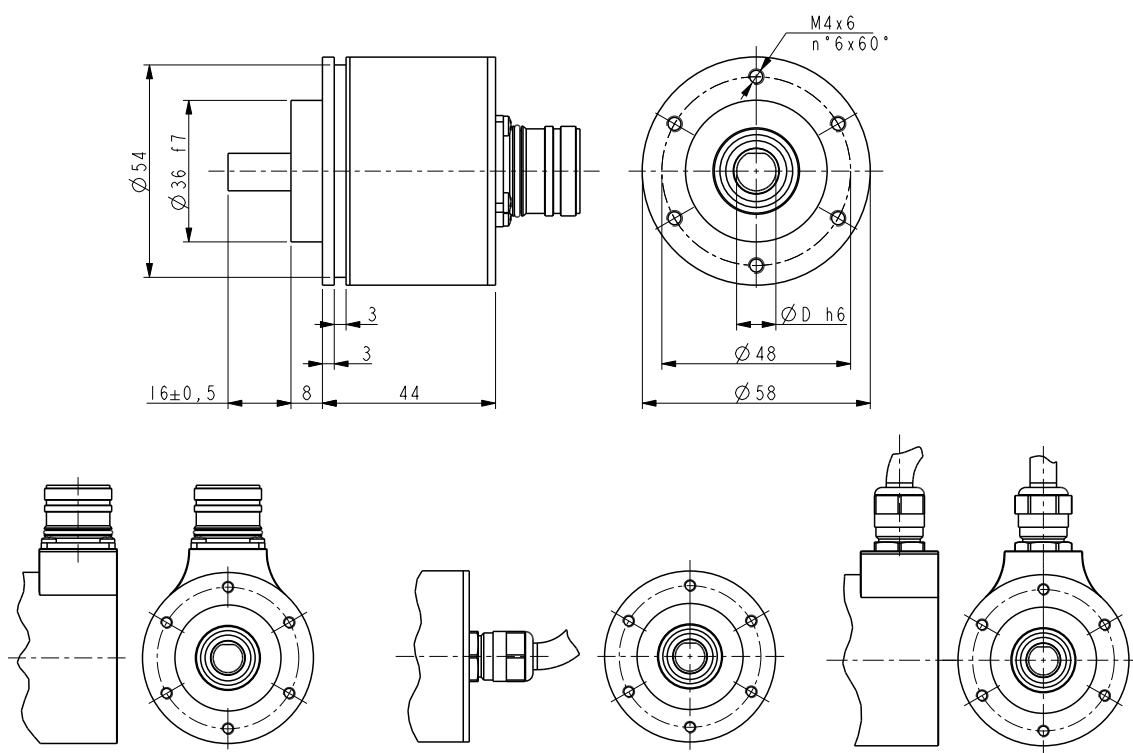
Flange:	anticorodal, UNI EN AW-6082
Housing:	anticorodal, UNI EN AW-6082 or zamac die cast
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305

ACCESSORIES

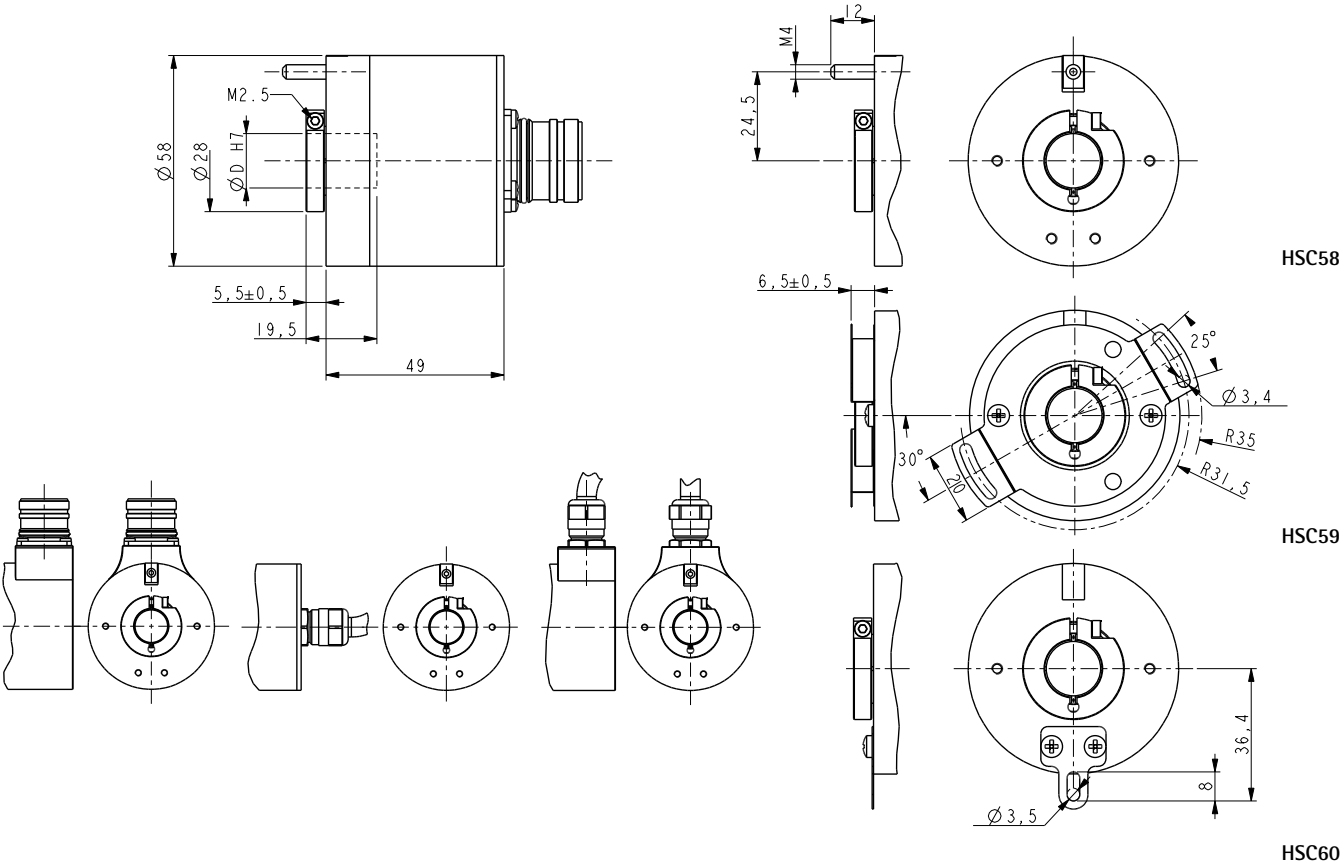
EPFL121H:	M23 12 pin connector
EM12F8:	M12 8 pin mating connector
EM12F12:	M12 12 pin mating connector
PAN/PGF:	flexible couplings
BR1:	reducing sleeves
EC-CR12F-S28-T12-xxx:	cordset xx m, M23 connector
EC-M12F8-LK-M8-xxx:	cordset xx m, M12 8 pin connector
EC-M12F12-LK-T12-xxx:	cordset xx m, M12 12 pin conn.
LKM-386:	fixing clamps



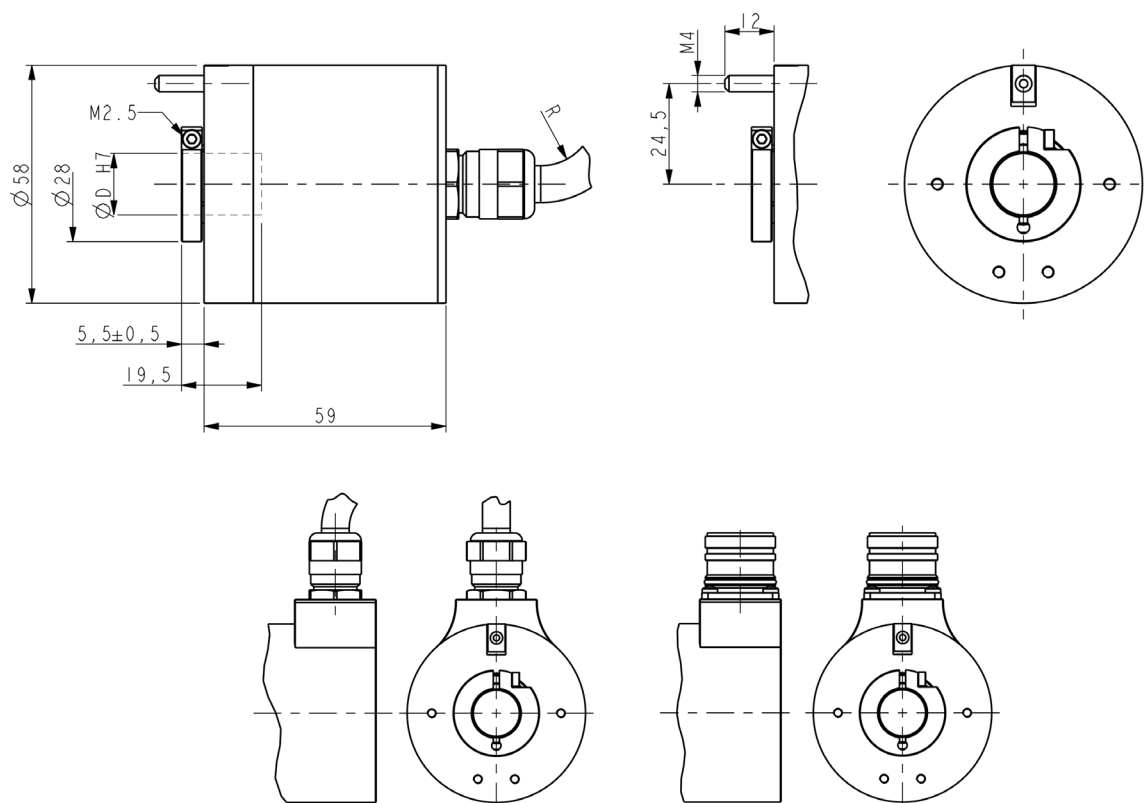
HS58



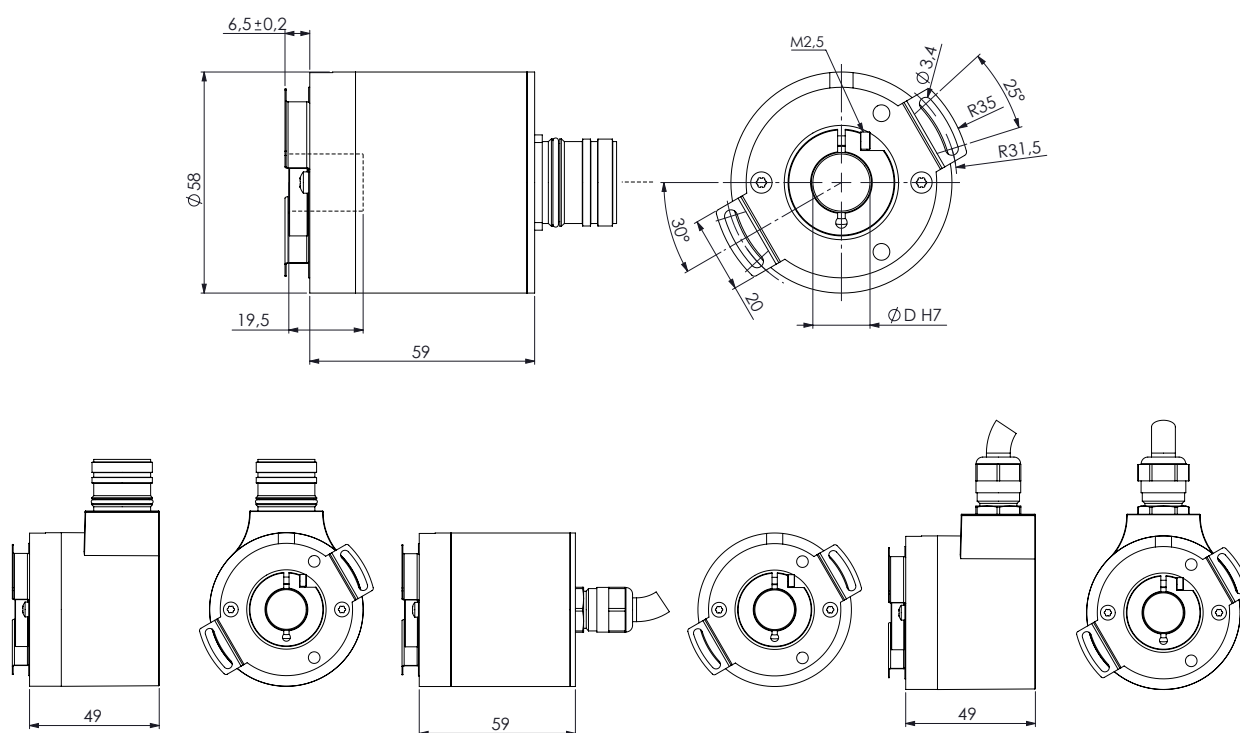
HS58S



Document release	Date	Description
1.2	4.12.2025	Phase Out
1.1	21.06.2024	Resolution update
1.0	9.02.2024	New order code



R.EHM58C • R.EH058C



R.EHM59C • R.EH059C

Order code - SSI output

R.	EHM58 EHM58S EHM58C EHM59C	XX a	/	XX b	-	XXX c	-	XX d	X e	X f	X g	XXXX h	/Sxxx i
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a RESOLUTION

04 ... 07
08 = 8 bit (256 cpr)
09 = 9 bit (512 cpr)
10 = 10 bit (1024 cpr)
11 = 11 bit (2048 cpr)
12 = 12 bit (4096 cpr)
13 = 13 bit (8192 cpr)

b REVOLUTIONS

04 = 16 turns
08 = 256 turns
12 = 4096 turns
other rev. on request

c OUTPUT

BS4 = Binary, SSI tree format, +5+30Vdc
BA4 = Binary, SSI LSB aligned, + 5+30Vdc
GS4 = Gray, SSI tree format, + 5+30Vdc
GA4 = Gray, SSI LSB aligned, + 5 +30Vdc

d SHAFT DIAMETER

06 = 6 mm
08 = 8 mm
P9 = 9.52mm / 3/8"
10 = 10 mm
12 = 12 mm
14 = 14 mm (R.EHM58C, R.EHM59C)
15 = 15 mm (R.EHM58C, R.EHM59C)

e PARITY BIT

B = Parity bit (option)
- = no parity bit

f OPERATING TEMP. RANGE

T = -25°C +85°C (-13°F +185°F)
K = -40°C +100°C (-40°F +212°F)

g CONNECTION POSITION

A = axial
R = radial

h CONNECTIONS

L010 = cable output 1 m (standard)
Lxx0 = cable output x m
D002 = 0,2 m cable + MIL 7 pin inline plug
P002 = 0,2 m cable + MIL 10 pin inline plug
M2 = M23 12 pin plug
M8 = M12 8 pin plug

i CUSTOM VERSION

Order code

R.	EHO58 EHO58S EHO58C EHO59C	-	XX-XX a	-	XXX b	-	XX c	-	X d	X e	-	X f	XXXX g	/Sxxx h
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a RESOLUTION

(BIT SINGLETURN-BIT MULTITURN)

13-00 = 13 bit (8192 cpr)
16-00 = 16 bit (65536 cpr)
18-00 = 18 bit (262144 cpr)
19-00 = 19 bit (524288 cpr)
20-00 = 20 bit (1048576 cpr)
13-12 = 13 x 12 bit (8192 cpr x 4096 turns)
16-14 = 16 x 14 bit (65536 cpr x 16384 turns)

b INTERFACE / POWER SUPPLY

GV4 = SSI, LSB aligned, Gray code + 512 PPR sin/cos, +5V +30V
BV4 = SSI, LSB aligned, Binary code + 512 PPR sin/cos, +5V +30V
GA4 = SSI, LSB aligned, Gray code, +5V +30V
BA4 = SSI, LSB aligned, Binary code, +5V +30V
GG4 = SSI, MSB aligned, Gray code, +5V +30V
BG4 = SSI, MSB aligned, Binary code, +5V +30V
SC4 = BiSS C-mode + 512 PPR sin/cos, LSB aligned +5V +30V
G14 = SSI, Gray code + 2048 PPR AB, /AB Line Driver, LSB aligned +5V +30V
G64 = SSI, Gray code + 2048 PPR AB, /AB Push-Pull, LSB aligned +5V +30V

c SHAFT DIAMETER

06 = 6 mm
08 = 8 mm
P9 = 9.52 mm, 3/8"
10 = 10 mm
12 = 12 mm
14 = 14 mm (R.EHO58C, R.EHO59C)
15 = 15 mm (R.EHO58C, R.EHO59C)

d PROTECTION

P = IP67, IP65 shaft side

e OPER. TEMP. RANGE

T = -25°C +85°C (-13°F +185°F)

f CONNECTION POSITION

A = axial
R = radial

g CONNECTION TYPE & CABLE LENGTH

L020 = cable output 2 m (standard)
Lxx0 = cable out. x m (max. length 10m)
L100 = cable output 10 m
M2 = M23 12 pin plug
M8 = M12 8 pin plug
(only for GA4, BA4, GG4, BG4)
M1 = M12 12 pin plug
(except for GA4, BA4, GG4, BG4)

h CUSTOM VERSION

Document release	Date	Description
1.0	1.12.2025	First issue

PHASE OUT

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Please read our NPC25001 (notification of product change).

Closest replacement product is: EH058 or R. EH058 (depending on interface, contact our customer service for more information)



HM58 • HM58S • HMC58

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:	IP67, IP65 shaft side
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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
Shaft loading (axial, radial):	40 N max.
Shaft rotational speed:	12000 rpm, 9000 rpm continuous operation
Starting torque (at 20°C):	HM58: 0,15 Ncm (typ.) HM58S, HMCxx: 0,4 Ncm (typ.)
Bearings life:	400 x10 ⁶ rev. min. (10 ⁹ rev. min. with 20 N shaft loading max.)
Electrical connections:	M12, M23 plug or cable output 2 m (6.56 ft)
Weight:	~ 300 g (10,6 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

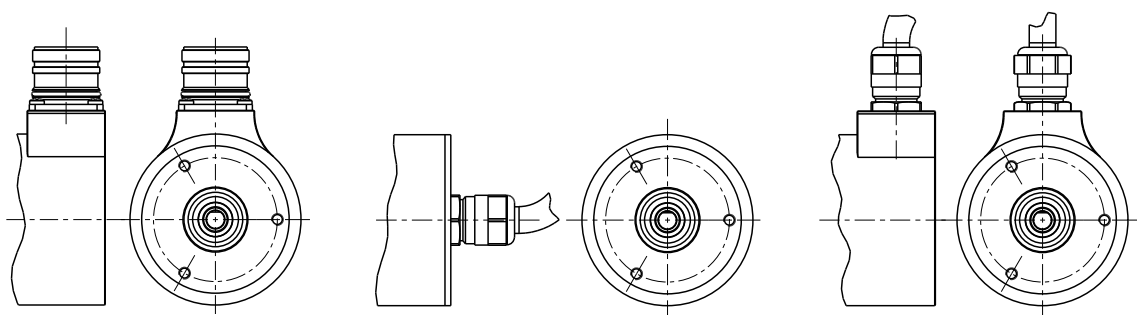
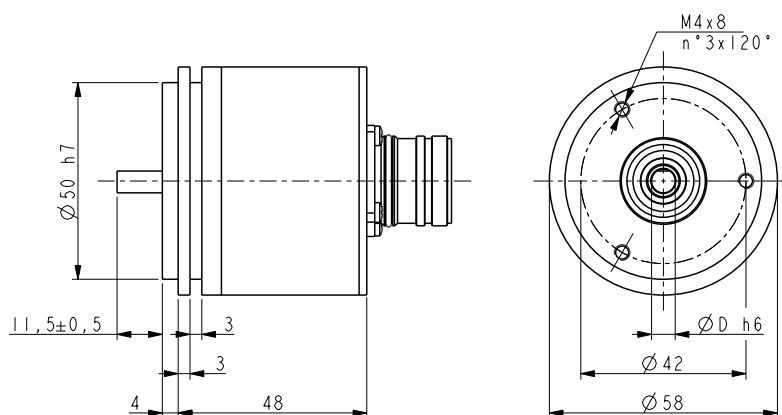
Resolution:	SSI, BiSS, 16x14 bit max. sin/cos: 2048 PPR AB, /AB: 2048, 4096, 8192
Accuracy:	± 0,01°
Output circuits:	SSI, SSI + 1Vpp, SSI + Push-Pull, SSI + Line Driver 5V, BiSS + 1Vpp
Output code:	Gray, Binary
Counting frequency:	220 kHz max.
Power supply:	+5Vdc ±5%, +10V +30V
Power consumption:	1 W
Protection:	against inversion of polarity, short-circuit
EMC:	electro-magnetic immunity, according to: EN-61000-4-2 EN-61000-4-4
Functions:	• Counting direction (input) • Zero setting/Preset (input)

MATERIALS

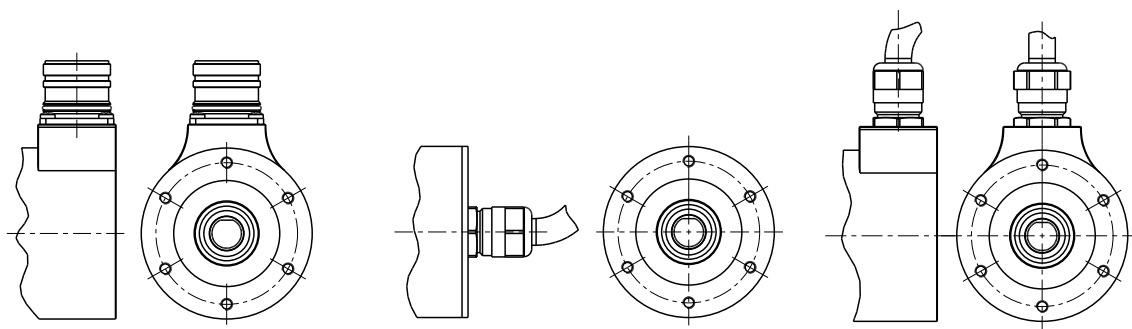
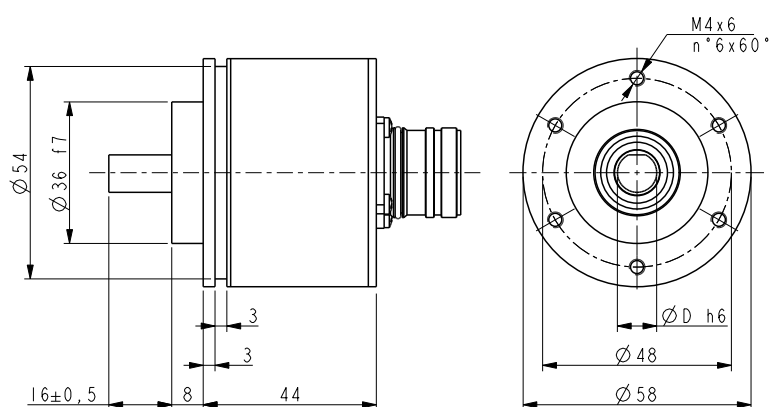
Flange:	anticorodal, UNI EN AW-6082
Housing:	anticorodal, UNI EN AW-6082 or zamac die cast
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305
Light source:	GaAl diodes

ACCESSORIES

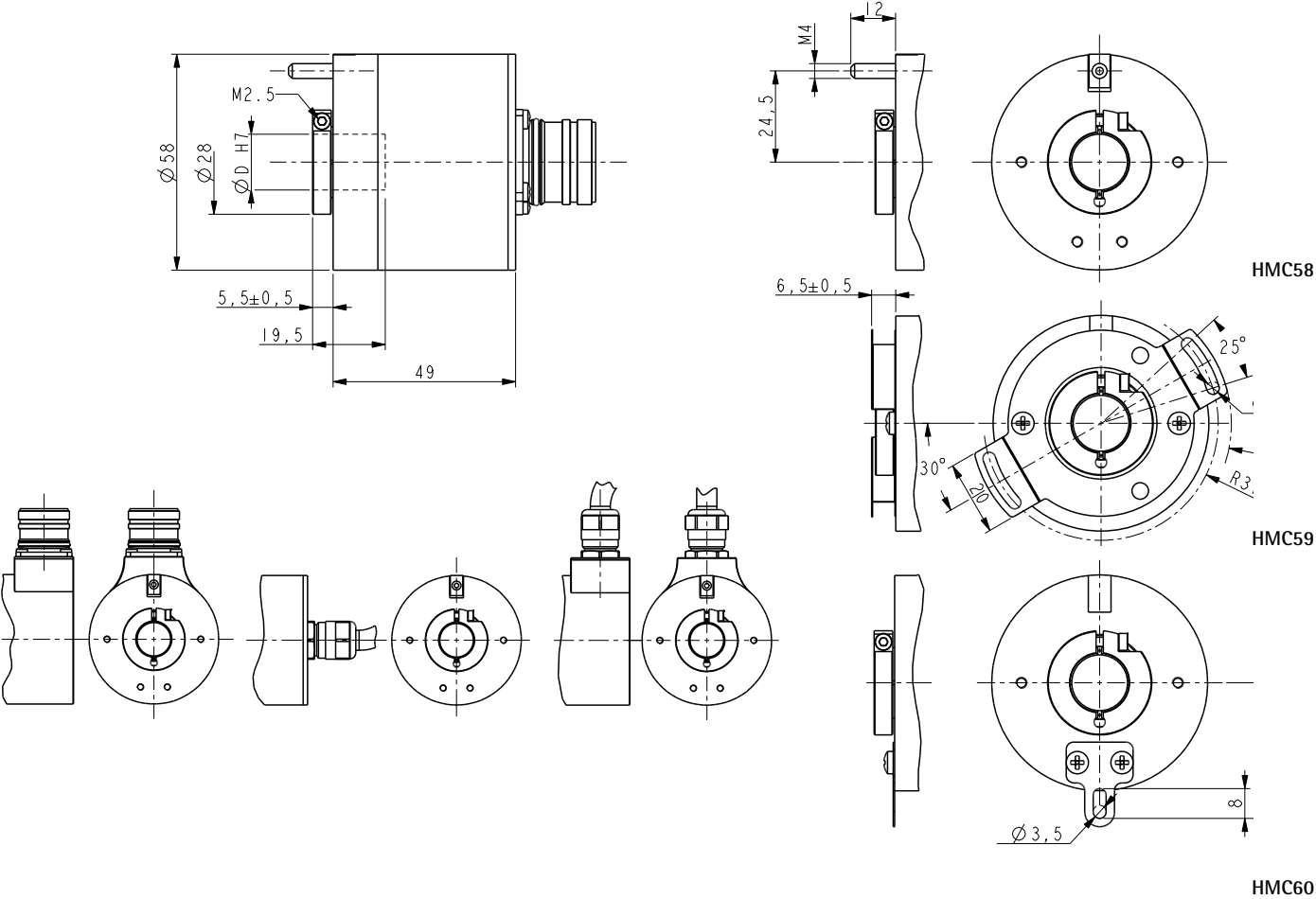
EPFL121H:	M23 12 pin connector
EM12F8:	M12 8 pin mating connector
EM12F12:	M12 12 pin mating connector
PAN/PFG:	flexible couplings
BR1:	reducing sleeves
EC-CR12F-S28-T12-xxx:	cordset xx m, M23 connector
EC-M12F8-LK-M8-xxx:	cordset xx m, M12 8 pin connector
EC-M12F12-LK-T12-xxx:	cordset xx m, M12 12 pin conn.
LKM-386:	fixing clamps



HM58



HM58S



Document release	Date	Description
1.2	4.12.2025	Phase Out
1.1	21.01.2025	Order code correction (shaft diameter)
1.0	9.02.2024	New order code