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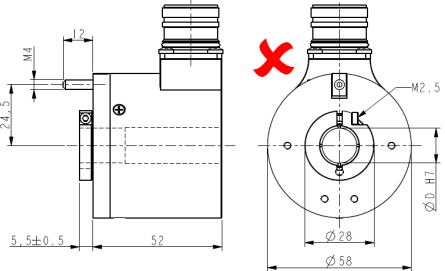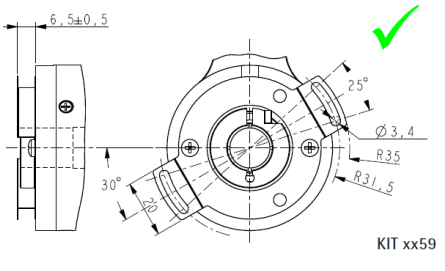Special "replacement" models will be created to grant maximum backward compatibility for spare part purposes. These models will be based on the above-mentioned new series, but offer bigger options variety. They can be identified with R.EHM58, R.EHO58 and R.EHCT59.

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

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 TIx, 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.EHO58-aa-bb-ccc-dd-ee-fggg R.EHO58S-aa-bb-ccc-dd-ee-fggg R.EHO58C-aa-bb-ccc-dd-ee-fggg R.EHO59C-aa-bb-ccc-dd-ee-fggg R.EHO59C-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)	EHO58-aa-bb-ccc-dd-ee-fggg EHO58S-aa-bb-ccc-dd-ee-fggg EHO58C-aa-bb-ccc-dd-ee-fggg EHO59C-aa-bb-ccc-dd-ee-fggg EHO59C-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

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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.EHO58-aa-bb-ccc-dd-ee-fggg R.EHO58S-aa-bb-ccc-dd-ee-fggg R.EHO58C-aa-bb-ccc-dd-ee-fggg R.EHO59C-aa-bb-ccc-dd-ee-fggg R.EHO59C-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.EHO58** axial connection = 58mm radial connection = 48mm **R.EHM58S** **R.EHO58S** axial connection = 58mm radial connection = 48mm **R.EHM58C, R.EHM59C** **R.EHM58C, R.EHM59C** **R.EHO58C, R.EHO59C, R.EHO59C+KIT-xx60** **R.EHO58C, R.EHO59C, R.EHO59C+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.

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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**

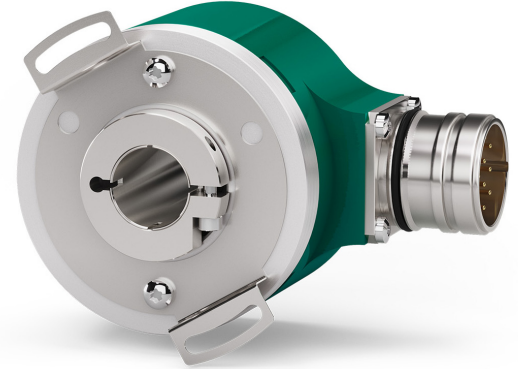Spare part orders of the old models will be possible for limited q.ties.

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

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Series | **R. EHCT59**

BiSS INTERFACE | SSI

CE UK CA c UL us RoHS

- Replacement version of: HSCT-HMCT

EHCT59

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:	-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
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):	20 N max.
Shaft rotational speed:	6000 rpm
Starting torque (at 20°C):	1 Ncm
Electrical connections:	M12, M23 plug or cable output 1 m (3.3 ft)
Weight:	~ 210 g (7,4 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS	
Resolution:	singleturn up to 25 bit (33554432 cpr) multiturn up to 15 bit (32768 turns)
Accuracy:	± 0,01°
Output circuits:	SSI +1Vpp sin/cos 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:	zamac die cast
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305

ACCESSORIES	
BR1:	reducing sleeves
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
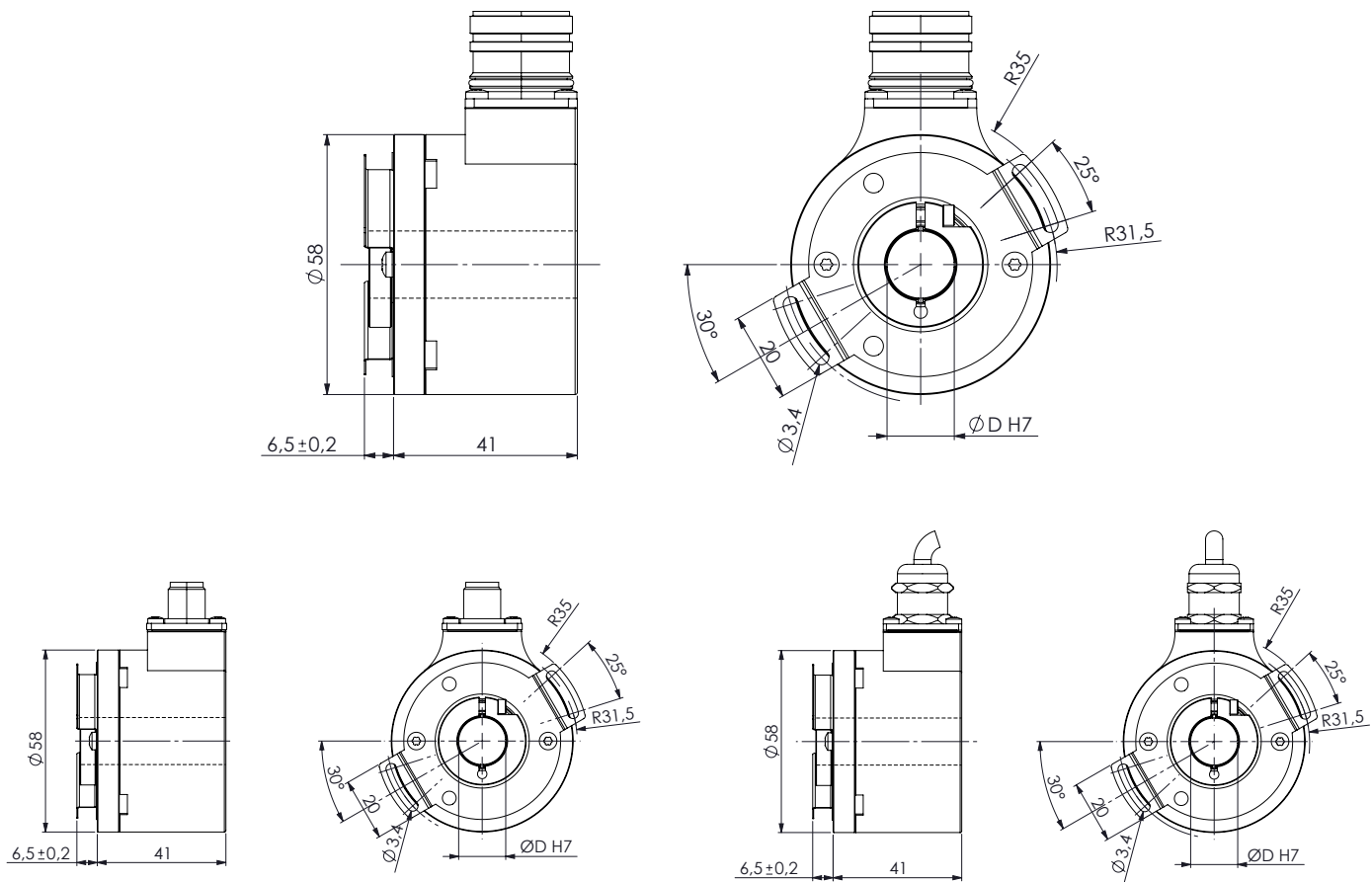
R. EHCT59

Order code – Single turn and multiturn

R.	EHCT59	XX–XX	–	XXX	–	XX	–	X	X	–	X	X	/Sxxx
		ⓐ		ⓑ		ⓒ		ⓓ	ⓔ		ⓕ	ⓖ	ⓗ

ⓐ **RESOLUTION HSCT**
(BIT SINGLETURN - BIT MULTITURN)
16-00 = 16 bit (65536 cpr x 1 turn)
18-00 = 18 bit (262144 cpr x 1 turn)
19-00 = 19 bit (524288 cpr x 1 turn)
20-00 = 20 bit (1048576 cpr x 1 turn)

ⓐ **RESOLUTION HMCT**
(BIT SINGLETURN - BIT MULTITURN)
10-15 = 10x15 bit (1024 cpr x 32768 turns)
11-14 = 11x14 bit (2048 cpr x 16384 turns)
12-13 = 12x13 bit (4096 cpr x 8192 turns)
13-12 = 13x12 bit (8192 cpr x 4096 turns)
16-12 = 16x12 bit (65536 cpr x 4096 turns)

ⓑ **INTERFACE / POWER SUPPLY**
BB4 = Binary, SSI LSB aligned, +5Vdc +30Vdc
GB4 = Gray, SSI LSB aligned, +5Vdc +30Vdc
GV4 = SSI, LSB aligned, Gray code + 1024 PPR sin/cos, +5V +30V
BV4 = SSI, LSB aligned, Binary code + 1024 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 + 1024 PPR sin/cos (5Vdc)
SC4 = BiSS C-mode + 1024 PPR sin/cos, +5V +30V
G14 = SSI, Gray code + 2048 PPR Line Driver AB, /AB Line Driver, +5+30Vdc
B14 = SSI, LSB aligned, Binary code + 2048 PPR Line Driver AB, /AB, +5+30Vdc
G64 = SSI, Gray code + 2048 PPR Push-Pull, AB /AB Push-Pull, +5+30Vdc
B64 = SSI, LSB aligned, Binary code + 2048 PPR Push-Pull AB, /AB, +5+30Vdc

ⓓ **PROTECTION**
P = IP65 shaft side

ⓒ **SHAFT DIAMETER**
14 = 14 mm
15 = 15 mm

ⓔ **OPERATING TEMPERATURE RANGE**
T = -25°C +85°C (-13°F +185°F)

ⓕ **CONNECTION POSITION**
R = radial

ⓖ **CONNECTION TYPE & CABLE LENGTH**
L010 = cable output 1 m (standard)
L020 = cable output 2 m
Lxx0 = cable out. x m (max. length 10m)
M2 = M23 connector
M8 = M12 8 pin plug
(only for GA4, BA4, GG4, BG4)
M1 = M12 12 pin plug
(except for GA4, BA4, GG4, BG4)

ⓗ **CUSTOM VERSION**

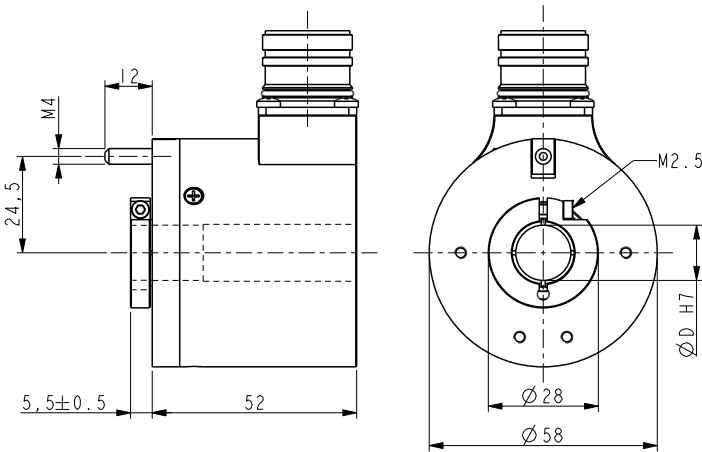| Document release	Date	Description
1.0	4.12.2025	First issue

lika

OBSOLETE

This product has reached End of Life and is no longer available.
Some spare parts might be available until parts run out of stock.

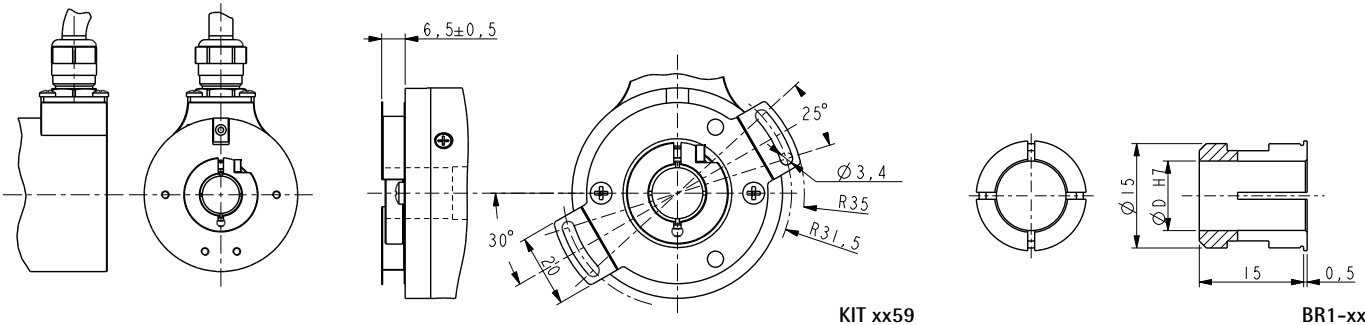Please read our NPC25001 (notification of product change).

Closest replacement product is: EHCT59 or R. EHCT59
(depending on interface, contact our customer service
for more information).

HSCT • HMCT

HSCT • HMCT

KIT xx59

BR1-xx

Document release	Date	Description
1.1	4.12.2025	Obsolete / End of life
1.0	9.02.2024	New order code

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