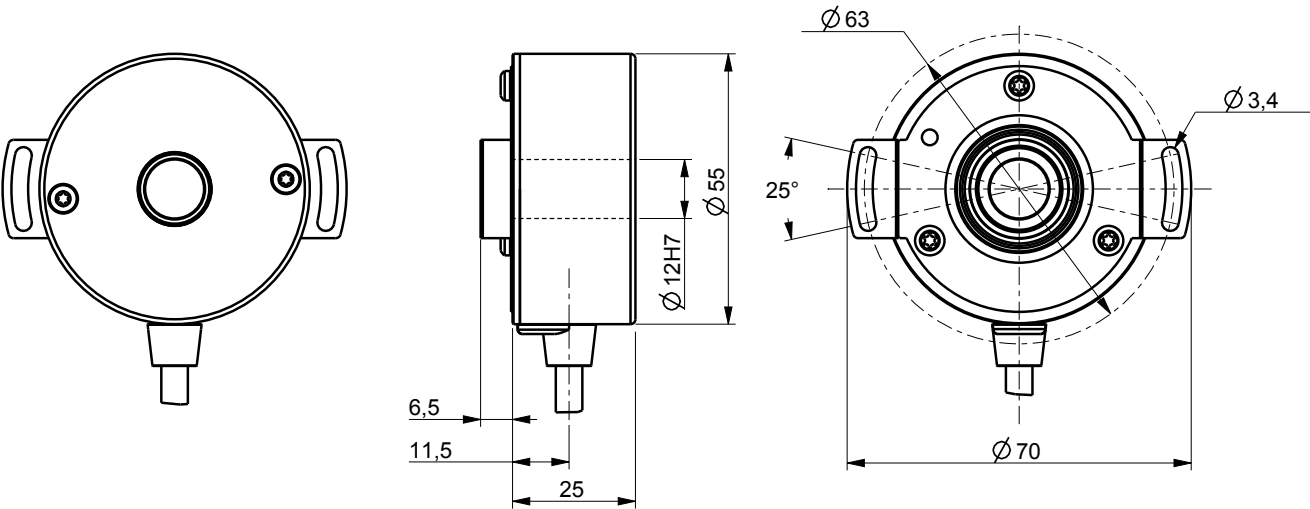


OBSOLETE

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 NPC25016 (notification of product change).

Closest replacement product is: CB59.



CH59

Document release	Date	Description
1.2	29.08.2025	Obsolete / End of life
1.1	01.03.2021	Introduction sin/cos version

Smart encoders & actuators

To
all Business partners

k. attn. Purchasing Manager
Technical Manager
Obsolescence Manager

Carrè, 29.08.2025
Our ref.: NPC25016 CH59 obsolescence

Subject: Notification of Change to:

CH59 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

The CH59 series is an outdated product with nowadays low business volumes and will therefore be obsoleted. This product has no direct alternative, but can be replaced in certain cases by the CB59 series (see attached datasheet).

Description	Before	Now
Mechanical dimensions	see CH59 datasheet	see CB59 datasheet
Resolutions	all resolutions of the CH59 can be implemented on the CB59 (even if not listed on the datasheet)	
Output circuit	L1 (Line Driver RS422 +5Vdc)	L1 will be available for spares (even if not listed on the datasheet)
Cross-reference (if CB59 alternative is acceptable)	CH59-L1-00032-ZCU-12-DT-RL010 CH59-L1-00032-ZCU-12-DT-RL020 CH59-L1-00050-ZCU-12-DT-RL050 CH59-L1-00100-ZCU-12-DT-RL010 CH59-V1-1024-1-ZCU-10-DT-RL010/S832 CH59-V1-1024/1-ZCU-12-DT-RL010/S832	CB59-L1-00032-P2 + EC-ASB/CB62-L010 CB59-L1-00032-P2 + EC-ASB/CB62-L040 CB59-L1-00050-P2 + EC-ASB/CB62-L050 CB59-L1-00100-P2 + EC-ASB/CB62-L010 no replacement no replacement

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

Change Effective Period:

The change is effective immediately.

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

Best Regards

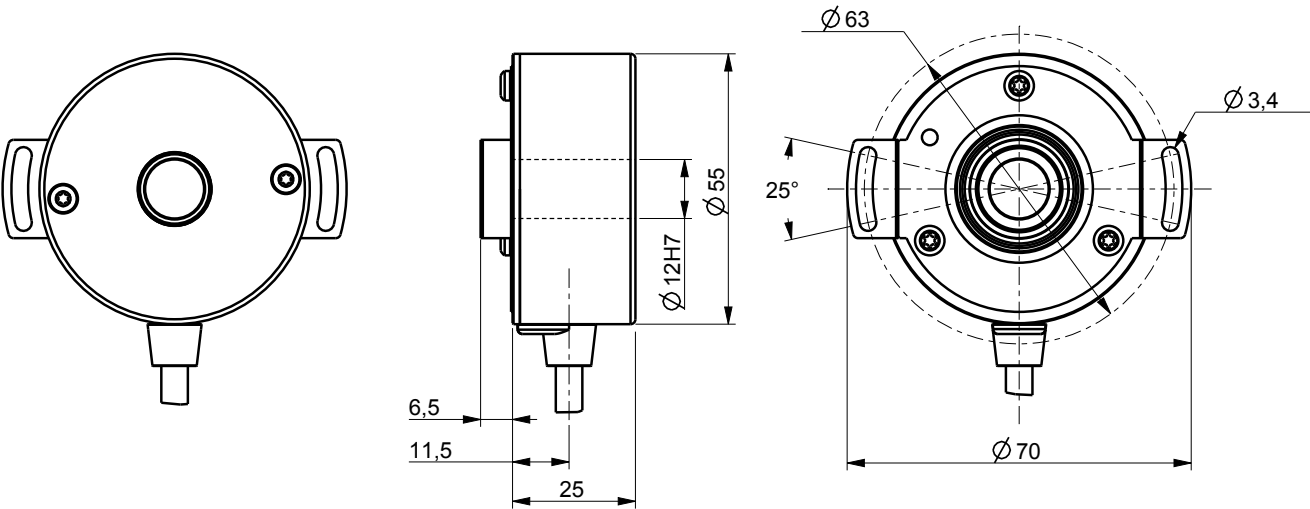
LIKA ELECTRONIC Srl
Sales & Marketing team

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CH59

Document release	Date	Description
1.2	29.08.2025	Obsolete / End of life
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- Feedback encoder for servo & gearless motors
- 2048 PPR sine/cosine output
- Absolute track for rotor/stator position
- Hollow shaft design
- Pin compatible connector with market products



CB59

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:	IP40
Operating temperature range:	-20°C+100°C (-4°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:	hollow, Ø 12.7, 15 mm
Shaft loading (axial, radial):	40 N max.
Shaft rotational speed:	12000 rpm max.
Starting torque at 20°C:	0,15 Ncm (typical)
Bearings life:	10 ⁹ rev. min.
Electrical connections:	PCB connector (connection cable to be ordered separately)
Weight:	~ 200 g (7 oz)

ELECTRICAL SPECIFICATIONS

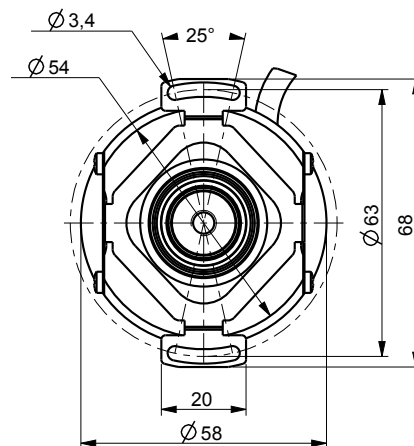
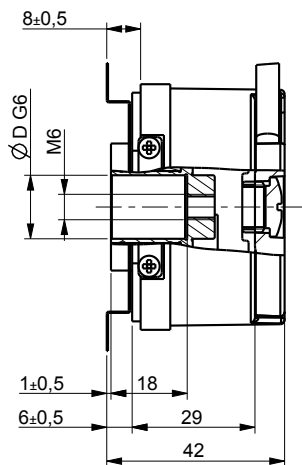
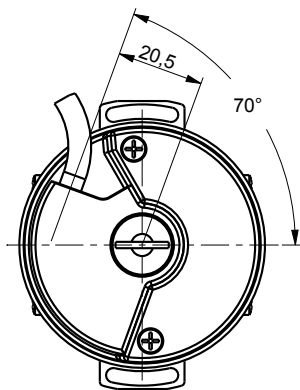
Resolution (PPR):	2048 + absolute CD-track
Counting frequency:	300 kHz max.
Output circuits:	1Vpp
Power supply:	+5V±5%
Consumption:	65 mA max.
Output current (each channel):	40 mA max.
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4

MATERIALS

Flange:	aluminium, anticorodal, UNI EN AW-6082
Housing:	zamak 15, UNI EN1774
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic - UNI EN 4305

ACCESSORIES

EC-ASB/CB62-010:	Connection cable 1 m
EC-ASB/CB62-040:	Connection cable 4 m
EC-ASB/CB62-050:	Connection cable 5 m
EC-ASB/CB62-070:	Connection cable 7 m
EC-ASB/CB62-100:	Connection cable 10 m



CB59

Order code

CB59	-	X	-	XXXX/X	XX	/Sxxx
		(a)		(b)	(c)	(d)

Accessories order code

EC	-	ASB/CB62	-	X
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(a) OUTPUT CIRCUIT V1 = 1 Vpp sine/cosine, +5V ±5%	(b) RESOLUTION (PPR) 2048/0 = 2048 PPR ABZ /ABZ 2048/1 = 2048 PPR ABZ /ABZ + Z track	(c) SHAFT DIAMETER P2 = 12,7 mm - 1/2" 15 = 15 mm
(d) CUSTOM VERSION		

EC-ASB/CB62-010 = Connection cable 1 m
EC-ASB/CB62-040 = Connection cable 4 m
EC-ASB/CB62-050 = Connection cable 5 m
EC-ASB/CB62-070 = Connection cable 7 m
EC-ASB/CB62-100 = Connection cable 10 m

Document release	Date	Description
1.0	October 2023	New order code