

- This model is based on the CP82 series
- R. CP82 is intended to replace former C81 and C82 versions no longer available
- All options on this datasheet are recommended only for spare parts
- For new applications the C82 and CP82 datasheets should be taken into account



R. CP82

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:	IP54
Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-25°C +85°C (-13°F +185°F) (98% R.H. without condensation)
Options:	• Operating temperature range: -40°C +100°C (-40°F +212°F) • IP65 Protection (2000 rpm max, torque 2 Ncm)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft hollow:	Ø 30, 32, 34, 35, 38, 40, 42, 44 mm
Reducing sleeves, BR2-xx from Ø 30 mm to:	Ø 15, 5/8" (15,875), 16, 17, 18, 19, 20 22, 23, 24, 1" (25,4), 28 mm
Shaft loading:	axial: 100 N max. radial: 200 N max.
Shaft rotational speed:	max. 2000 rpm@70°C (158°F)/IP54, 3000 rpm@100°C (212°F)/IP54 max. 1500 rpm@70°C (158°F)/IP65, 2000 rpm@100°C (212°F)/IP65
Starting torque at 20°C:	4 ÷ 12 Ncm (typical)
Misalignment:	± 0,3 mm radial ± 0,2 mm axial
Bearings life:	400 x 10 ⁶ rev. min. (10 ⁹ rev. min. with 20 N shaft loading max.)
Electrical connections:	M23 12 pin plug or cable output 1 m (3.3 ft)
Weight:	~ 0,3 g (10,6 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

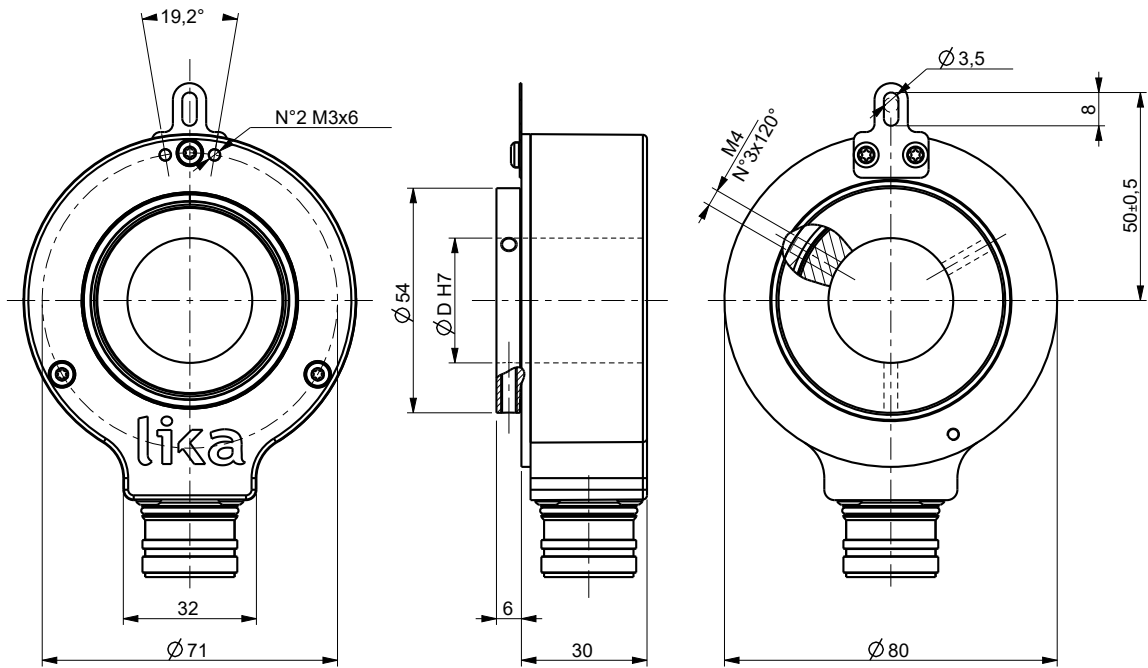
Resolution (PPR):	programmable from 1 to 65536 PPR
Counting frequency:	300 kHz max.
Output circuits:	Push-Pull, Line Driver, Universal circuit
Power supply:	+5V ±5%, +10V +30V, +5V +30V
Consumption:	70 mA (typical)
Output current (each channel):	40 mA max.
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4

MATERIALS

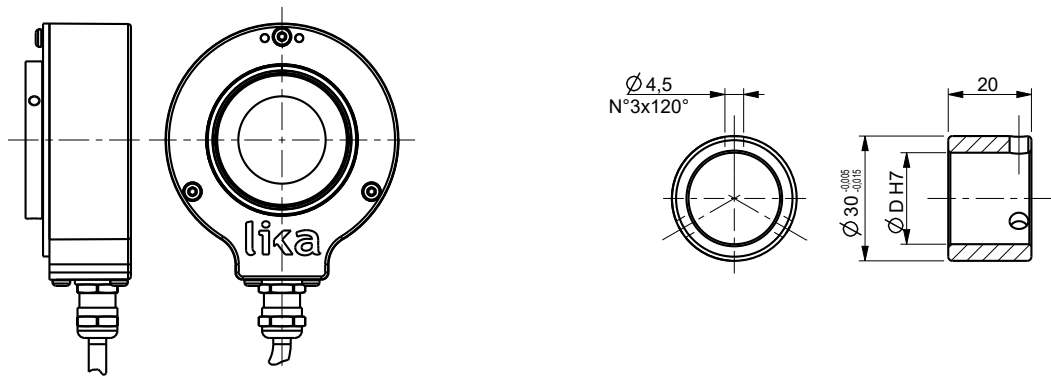
Flange:	anticorodal, UNI EN AW-6082
Housing:	die cast alluminium, UNI EN AC-46100
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic, UNI EN 4305

ACCESSORIES

EC-C12F-LK-I8-L050:	Cordset 5m with M23 connector
EC-C12F-LK-I8-L100:	Cordset 10m with M23 connector
EPFL121:	M23 12 pin mating connector
BR2-xx:	reducing sleeves



R. CP82



BR2-xx

Order code

R.	CP82	-	XX	-	XXXXX	-	XXX	-	XX	-	X	X	-	X	XXXX	/Sxxx
			(a)		(b)		(c)		(d)		(e)	(f)		(g)	(h)	(i)

(a) OUTPUT CIRCUITS / POWER SUPPLY Y2 = Push Pull, +10V÷ +30V L1 = Line Driver (RS422), +5V±5% H4 = PP/LD universal circuit, +5V÷ +30V L2 = Line Driver (RS422), +10V÷ +30V (b) RESOLUTION (PPR) See electrical specifications (c) OUTPUT SIGNALS / CONNECTIONS BNF = AB, cable output ZNF = AB0, cable output BCU = AB /AB, cable output ZCU = AB0 /AB0, cable output BCZ = AB /AB, M23 12 pin plug ZCZ = AB0 /AB0, M23 12 pin plug	(d) SHAFT DIAMETER 30 = 30 mm 32 = 32 mm 34 = 34 mm 35 = 35 mm 38 = 38 mm 40 = 40 mm 42 = 42 mm 44 = 44 mm (43,97)	(e) PROTECTION V = IP54 (standard) P = IP65 (f) OPERATING TEMP. T = -25°C +85°C (-13°F +185°F) K = -40°C +100°C (-40°F +212°F) (g) CONNECTION POSITION R = radial	(h) CABLE LENGTH L010 = cable output 1 m L020 = cable output 2 m L070 = cable output 7 m Lxx0 = cable output x m (max. 10 m) Cxxx = x dm cable with DSub 9 pin inline plug
(i) CUSTOM VERSION			

Document release	Date	Description
1.0	14.11.2025	First issue