

- This model is based on the C50MI series
- R. C50MI is intended to replace former C50 versions no longer available
- All options on this datasheet are recommended only for spare parts
- For new applications the C50MI datasheet should be taken into account

Applications:

- Motor feedback
- Factory automation



R. C50MI

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 +100°C (-13°F +212°F) (-25°C +110°C, -13°F +230°F on request)
Storage temperature range:	-25°C +85°C (-13°F +185°F)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Hollow shaft diameter:	Ø 6, 6.35, 8, 9.52, 10 mm
Shaft loading (axial, radial):	20 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque (at 20°C):	≤ 0,25 Ncm (typical)
Bearings life:	10 ⁹ rev. min.
Electrical connections:	cable output, 1 m (3.3 ft)
Weight:	~ 100 g (3,5 oz)
Options:	• additional cable

ELECTRICAL SPECIFICATIONS

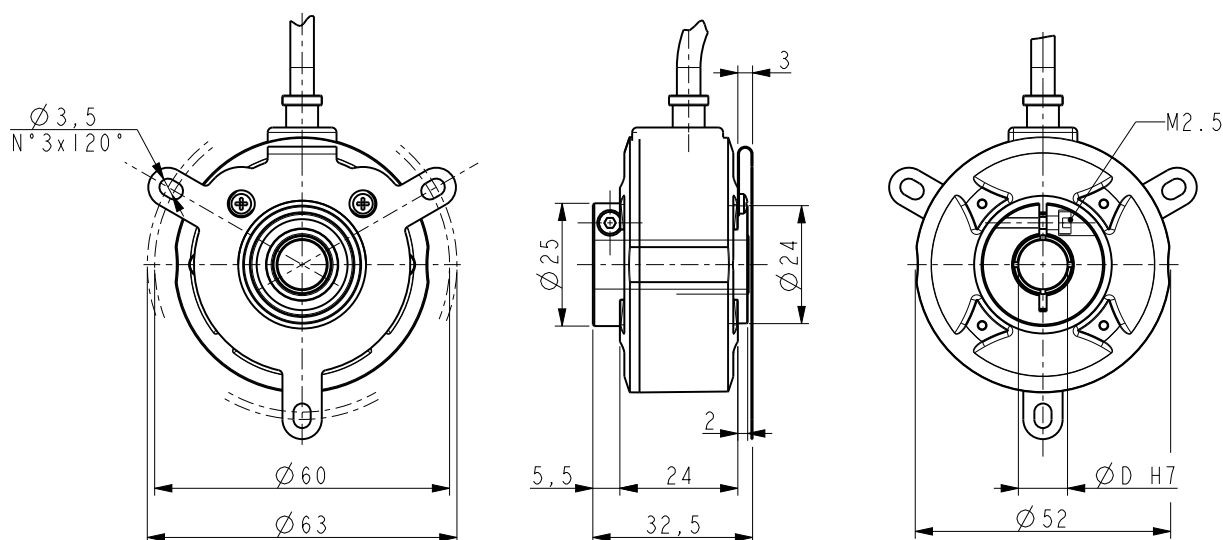
Resolution:	6-10-12-25-50-100-180-200-250-256-400-2500-5000 PPR
Accuracy:	typ. ±0,05°
Output circuits:	Push-Pull
Power supply:	+10V +30V
Power consumption:	typ. 105 mA (max. 150 mA)

MATERIALS

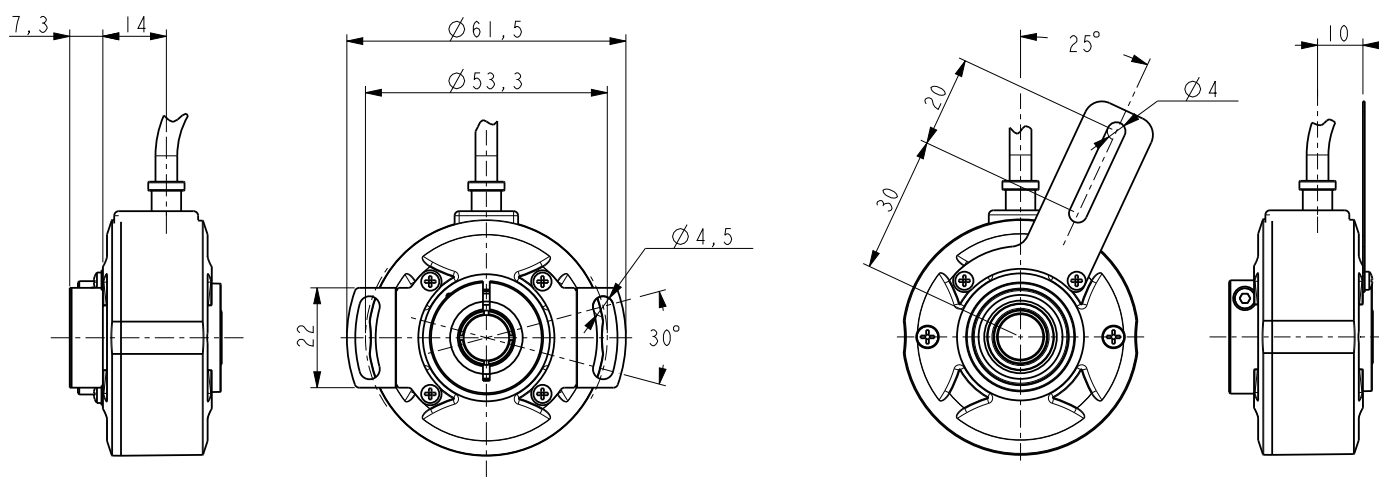
Flange:	zamak 15, UNI EN1774
Housing:	zamak 15, UNI EN1774
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic - UNI EN 4305

ACCESSORIES

KIT C50:	standard fixing plate and screws
KIT MOL2546:	"B" fixing plates and screws
KIT MOL2433:	"D" fixing plate and screws
KIT LKM1787:	antirotation pin for fixing plates "D"
KIT C50 SCREWS:	50 screws for fixing plate



R. C50MI



Version B (2 x MOL2546)

Version D (1 x MOL2433)
(combine with antirotation pin LKM1787)

Order code - incremental version

R.	C50MI	-	XX	-	XXXXX	-	XXX	-	XX	-	X	X	-	X	-	X	XXXX	/SXXX
			(a)		(b)		(c)		(d)		(e)	(f)		(g)		(h)	(i)	(j)

(a) OUTPUT CIRCUIT

Y2 = Push Pull, +10V ÷ +30V

(b) RESOLUTION

See electrical specifications

(c) OUTPUT SIGNALS

BNF = AB
ZNF = ABO

(d) SHAFT DIAMETER

O6 = 6 mm
P6 = 6.35 mm - 1/4"
O8 = 8 mm
P9 = 9.52 mm - 3/8"
10 = 10 mm

(e) PROTECTION

P = IP65

(f) OPERATING TEMPERATURE

U = -25°C +100°C (-13° +212°F)

(g) FIXING PLATE

E = standard fixing plate
A = no fixing plate
B = Version B fixing plate
D = Version D fixing plate

(h) CONNECTION POSITION

R = radial

(i) CABLE LENGTH

L010 = cable output 1 m (standard)
L020 = cable output 2 m
Lxx0 = cable output x m (max. length 10 m)

(j) CUSTOM VERSION

Document release	Date	Description
1.3	18.09.2026	Accessories update (KIT LKM1787)
1.2	30.04.2026	Output circuit update (Y2)
1.1	5.03.2026	Resolution update (added 180, 200, 250, 256, 400 PPR)
1.0	16.01.2026	First release