

Series

C58 • C59 • C60



- Compact through hollow shaft encoders
- M23, M12 connector or cable output
- Ø15 or Ø14 mm shaft, other diameters with reduction sleeves
- Universal output circuit PP/LD



C60 • C58 • C59

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:	IP64
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 (3000 rpm max, torque 1 Ncm)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Hollow shaft diameter:	Ø 14, 15 mm
Shaft loading (axial, radial):	30 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque at 20°C:	1 Ncm (typical)
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 1 m (3.3 ft)
Weight:	~ 150 g (5,2 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

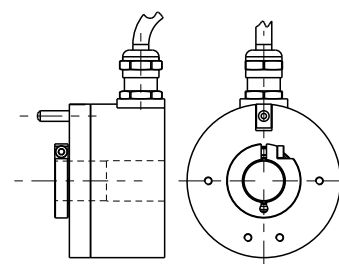
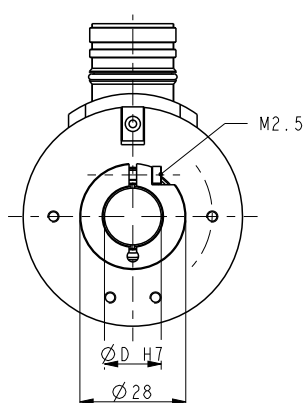
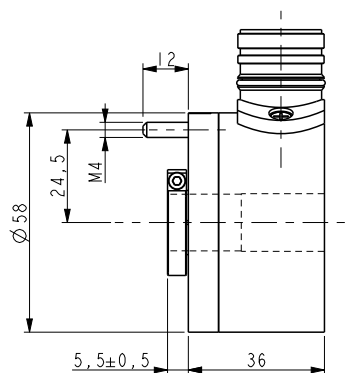
Resolution (PPR):	10-12-25-50-250-256-300-360-400-500-600-720-900-1000 1024-1250-1800-2000-2048-2500-3600-4000-4096-5000
Counting frequency:	150 kHz max.
Output circuits:	Push-Pull, Line Driver, Universal circuit
Power supply:	+5V±5%, +10V +30V, +5V +30V
Consumption:	70 mA (typical)
Output current (per 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
Optoelectronic life:	100.000 hrs min.

MATERIALS

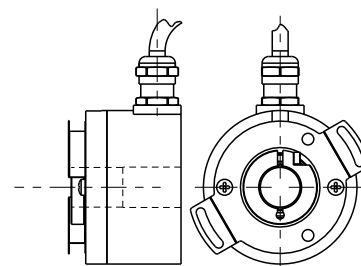
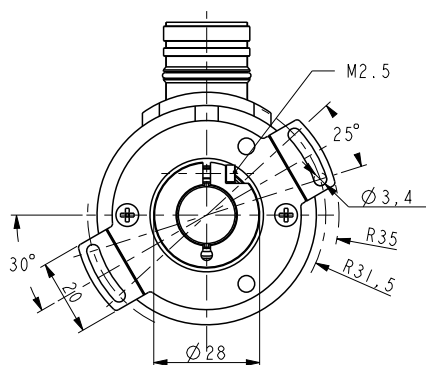
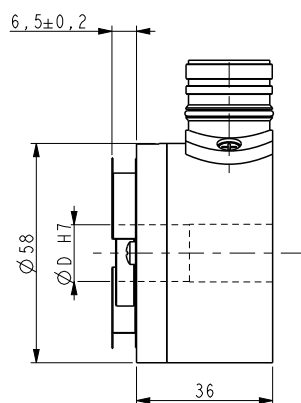
Flange:	anticorodal, UNI EN AW-6082
Housing:	zamac die cast
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic - UNI EN 4305

ACCESSORIES

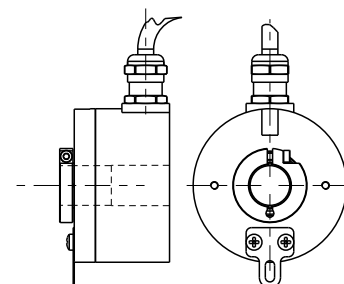
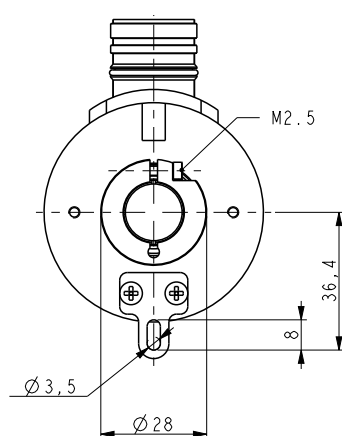
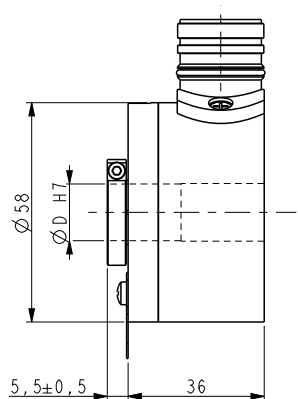
EPFL 121:	12 pin M23 mating connector
EC-C12F-LK-l8-x:	cordset x meter with M23 conn.
EC-M12F8-LK-M8-5:	cordset 5 meters with M12 conn.
EDE9S:	9 pin DSub mating connector
BR1:	Reducing sleeves



C58



C59



C60

Order code

C58	-	X	-	XXXXX	XXX	X	XX	X	X	XX	/Sxxx
C59	-	(a)	-	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
C60	-	(a)	-	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)

① OUTPUT CIRCUITS

Y = Push Pull
L = Line Driver (RS422)
H = PP/LD universal circuit

② RESOLUTION (PPR)

See electrical specifications

③ OUTPUT SIGNALS / CONNECTIONS

BNF = AB cable output
BCU = AB, /AB cable output
ZNF = ABO cable output
ZCU = ABO, /ABO cable output
BCZ = AB /AB, M23 12 pin plug
ZCZ = ABO /ABO, M23 12 pin plug
ZCM = ABO /ABO, M12 8 pin plug

④ SUPPLY VOLTAGE

1 = +5V±5% (L output circuit)
2 = +10V÷ +30V (Y output circuit)
4 = +5V÷ +30V (H output circuit)

⑤ SHAFT DIAMETER

14 = 14 mm
15 = 15 mm

⑥ PROTECTION

- = IP64 (standard)
P = IP65

⑦ OPERATING TEMPERATURE

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

⑧ CABLE LENGTH

(not with BCZ, ZCZ, ZCM)

- = cable output 1 m (standard)
L2 = cable output 2 m
Lx = cable output x m
CLx = x m cable with DSub 9 pin inline plug

⑨ CUSTOM VERSION