



- Programmable incremental encoder
- Compact size & rugged design
- Resolution from 1 to 16384 PPR
- Selectable Index length 90 or 180° el.
- Counting direction cw, ccw
- Push-Pull + Line Driver compatible output
- Programmable via USB cable



IQ36 • CKQ36

ENVIRONMENTAL SPECIFICATIONS

Shock:	100 g, 6 ms
Vibrations:	10 g, 5-2000 Hz
Protection:	IP67, IP65 shaft side
Operating temperature range:	-40°C +85°C (-40°F +185°F)
Storage temperature range:	-40°C +100°C (-40°F +212°F) (98% R.H. without condensation)
Option:	Protection IP69K (sealed circuits)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft diameter:	Ø 6 mm
Hollow shaft diameter:	Ø 6 mm
Shaft loading (axial, radial):	20 N max.
Shaft rotational speed:	typ. 6000 rpm / 12000 temporary
Starting torque at 20°C:	0,1 Ncm (typical)
Bearings life:	10 ⁹ rev. min.
Electrical connections:	M12 plug or cable output 1 m (3.3 ft)
Weight:	~ 50 g (1,7 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

Resolution (PPR):	programmable from 1 to 16384
Accuracy:	± 0,15°
Counting frequency:	500 kHz max.
Output circuits:	Universal output (PP+LD compatible)
Power supply:	+5V +30V
Consumption:	60 mA (typical)
Output current (each channel):	40 mA max.
Protection:	against inversion of polarity and short cut
EMC:	electro-magnetic immunity, EN 61000-4-2 EN 61000-4-4

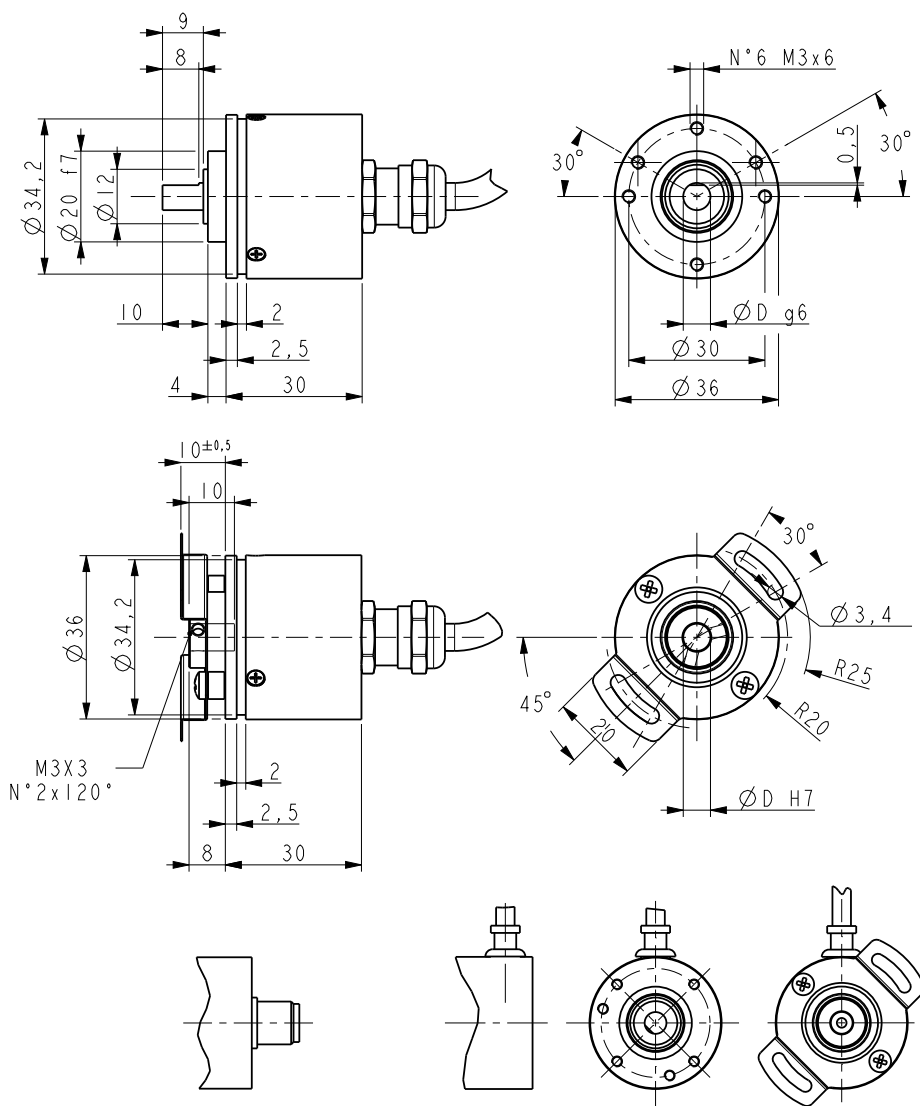
MATERIALS

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

ACCESSORIES

E-M12F12:	M12 12 pin mating connector
EC-M12F12-LK-T12-5:	M12 cordset with 5 m cable*
EC-M12F12-LK-T12-10:	M12 cordset with 10 m cable*
PAN/PGF:	flexible couplings
KIT IP/IQ58:	USB programming kit
EC-IP/IQ58-M12:	M12 programming cable

*not suitable for programming



IQ36 • CKQ36

Order code

IQ36 CKQ36	-	X (a)	-	XXXX (b)	XXX (c)	X (d)	X (e)	X (f)	XX (g)	/Sxxx (h)
---------------	---	----------	---	-------------	------------	----------	----------	----------	-----------	--------------

(a) OUTPUT CIRCUITS H = PP/LD universal circuit	(d) SUPPLY VOLTAGE 4 = +5V ÷ +30V	(g) CABLE LENGTH (only with ZCW) L1 = cable output 1 m L2 = cable output 2 m (max. length) RL1 = cable output 1 m radial RL2 = cable output 2 m radial (max. length)
(b) RESOLUTION (PPR) PROG = programmable	(e) SHAFT DIAMETER 6 = 6 mm	(h) CUSTOM VERSION
(c) OUTPUT SIGNALS / CONNECTIONS ZCW = ABO /ABO, 12 wires cable output (type T12) ZCM = ABO /ABO, M12 12 pin plug	(f) PROTECTION - = IP67 J = IP69K (with sealed circuits)	