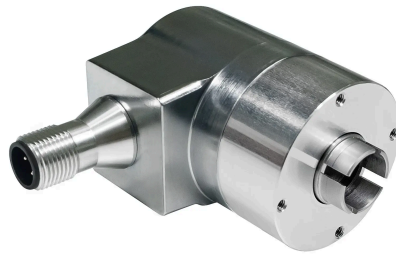




UCD-CA01B-1216-KCBD-PRV



Product Description

POSITAL IXARC absolute Multiturn encoder: CANopen interface, Blind Hollow, $\varnothing$ 36 mm / $\varnothing$ 42 mm, $\varnothing$ 12 mm (0.47") shaft and IP68 / IP69K protection class.

INTERFACE		✓
Interface	CANopen	
Profile	DS-406	
Transmission Rate	min. 20 kBaud, max. 1 MBaud	
Interface Cycle Time	≥ 1 ms	
Programming Functions	Resolution, preset, 2 limit switches, 8 CAMS, baud rate, CAN-Identifier, bootloader, transmission modes: polled, cyclic, sync	

OUTPUTS



Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Couplers
---------------	---

ELECTRICAL DATA



Supply Voltage	9 - 30 VDC
Current Consumption	$\leq 70 \text{ mA @ } 10 \text{ V DC}, \leq 50 \text{ mA @ } 24 \text{ V DC}$
Power Consumption	$\leq 1.2 \text{ W}$
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
MTTF	240 years @ 40 °C

SENSOR



Technology	Magnetic
Resolution Singleturn	16 bit
Resolution Multiturn	12 bit
Multiturn Technology	Self powered magnetic pulse counter (no battery, no gear)
Accuracy (INL)	$\pm 0.0878^\circ (\leq 12 \text{ bit})$
Code	Binary

ENVIRONMENTAL SPECIFICATIONS



Protection Class (Shaft)

IP68/IP69K

Protection Class
(Housing)

IP68/IP69K

Min Temperature

-40 °C (-40 °F)

Max Temperature

+85 °C (+185 °F)

Storage Temperature

-40 °C (-40 °F) – +85 °C (+185 °F)

Humidity

98% RH, no condensation

MECHANICAL DATA

Connection Cap Material	None
Housing Material	Steel
Housing Coating	Cathodic corrosion protection (>720 hrs salt spray resistance)
Flange Type	Blind Hollow, ø 36 mm / ø 42 mm
Flange Material	Aluminum
Flange Coating	No Coating
Shaft Type	Blind Hollow, Depth = 22 mm
Shaft Diameter	ø 12 mm (0.47")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Friction Torque	≤ 6 Ncm @ 20 °C, (8.5 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 3000 1/min
Shock Resistance	≤ 200 g (half sine 11 ms, EN 60068-2-27)
Permanent Shock Resistance	≤ 20 g (half sine 11ms, ≤5 g (half sinus 30 ms)
Vibration Resistance	≤ 20 g (20 Hz – 2000 Hz, EN 60068-2-6)
Weight	190 g (0.42 lb)
Maximum Axial / Radial Misalignment	Static ± 0.3 mm /± 0.5 mm; Dynamic ± 0.1 mm /± 0.2 mm

ELECTRICAL CONNECTION



Connection Orientation	Radial
------------------------	--------

Connection Type	Cable / Connector
-----------------	-------------------

Connector	M12, Male, 5 pin, a coded, with LED
-----------	-------------------------------------

CERTIFICATION



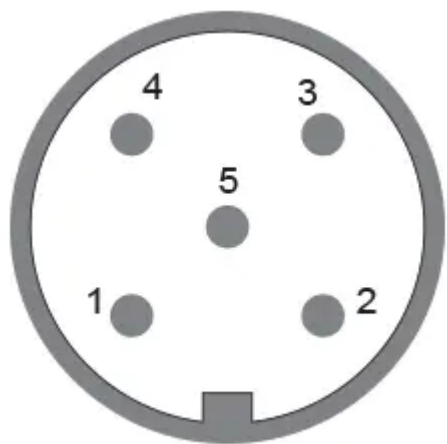
Approval	CE + cULus + E1
----------	-----------------

PRODUCT LIFE CYCLE



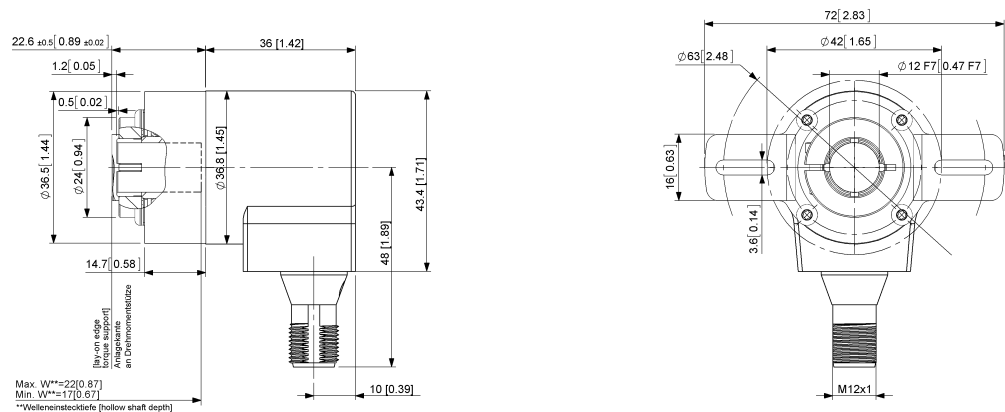
Product Life Cycle	Established
--------------------	-------------

Connection Plan



Signal	Connector	Pin Number
Power Supply	1	2
GND	1	3
CAN High	1	4
CAN Low	1	5
CAN GND	1	1

Drawings



Online Datasheet

