

POSITAL

FRABA



IXARC Absolute Rotary Encoder

OCD-S101G-1212-C100-PRL



Interface

Interface	SSI with Preset
Manual Functions	Preset + complement via cable or connector
Interface Cycle Time	$\geq 25 \mu\text{s}$

Outputs

Output Driver	RS422
---------------	-------

Electrical Data

Supply Voltage	4.5 - 30 VDC
Power Consumption	$\leq 1.5 \text{ W}$
Start-Up Time	$< 250 \text{ ms}$
Clock Input	RS 422, via Optocoupler
Clock Frequency	100 kHz - 2 MHz
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	16.2 years @ 40 °C

Sensor

Technology	Optical
------------	---------

POSITAL

FRABA



Resolution Singleturn	12 bit
Resolution Multiturn	12 bit
Multiturn Technology	Mechanical Gearing (no Battery)
Accuracy (INL)	$\pm 0.0220^\circ$ (14 - 16 bit), $\pm 0.0439^\circ$ (≤ 13 bit)
Sense Signal (Default)	Clockwise shaft movement (front view on shaft)
Code	Gray

Environmental Specifications

Protection Class (Shaft)	IP65
Protection Class (Housing)	IP66/IP67
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation
Housing Material	Steel
Housing Coating	Cathodic corrosion protection (>720 h salt spay resistance) + Wet Painted
Flange Type	Clamp, \varnothing 58 mm (C)
Flange Material	Aluminum
Shaft Type	Solid, Single Flat, Length = 20 mm
Shaft Diameter	\varnothing 10 mm (\varnothing 0.39")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 40 N, Radial 110 N
Minimum Mechanical Lifetime (10^8 revolutions with Fa/Fr)	430 (20 N / 40 N), 150 (40 N / 60 N), 100 (40 N / 80 N), 55 (40 N / 110 N)
Rotor Inertia	$\leq 30 \text{ gcm}^2$ [$\leq 0.17 \text{ oz-in}^2$]
Friction Torque	$\leq 3 \text{ Ncm}$ @ 20 °C (4.2 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	$\leq 12000 \text{ 1/min}$
Shock Resistance	$\leq 100 \text{ g}$ (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	$\leq 10 \text{ g}$ (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	$\leq 10 \text{ g}$ (10 Hz - 1000 Hz, EN 60068-2-6)
Length	52,7 mm (2.07")
Weight	285 g (0.63 lb)

Electrical Connection

Connection Orientation	Radial
Connector	M23, Male, 12 pin

Product Life Cycle

Data Sheet
Printed at 17-08-2016 08:08

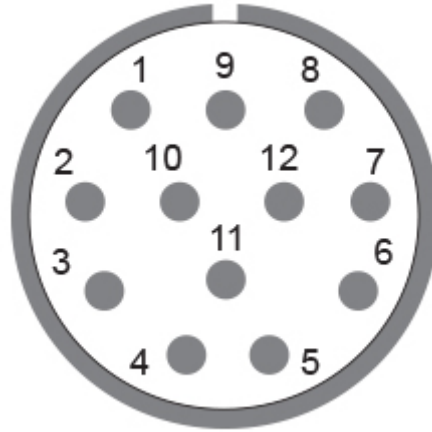
POSITAL

FRABA



Product Life Cycle

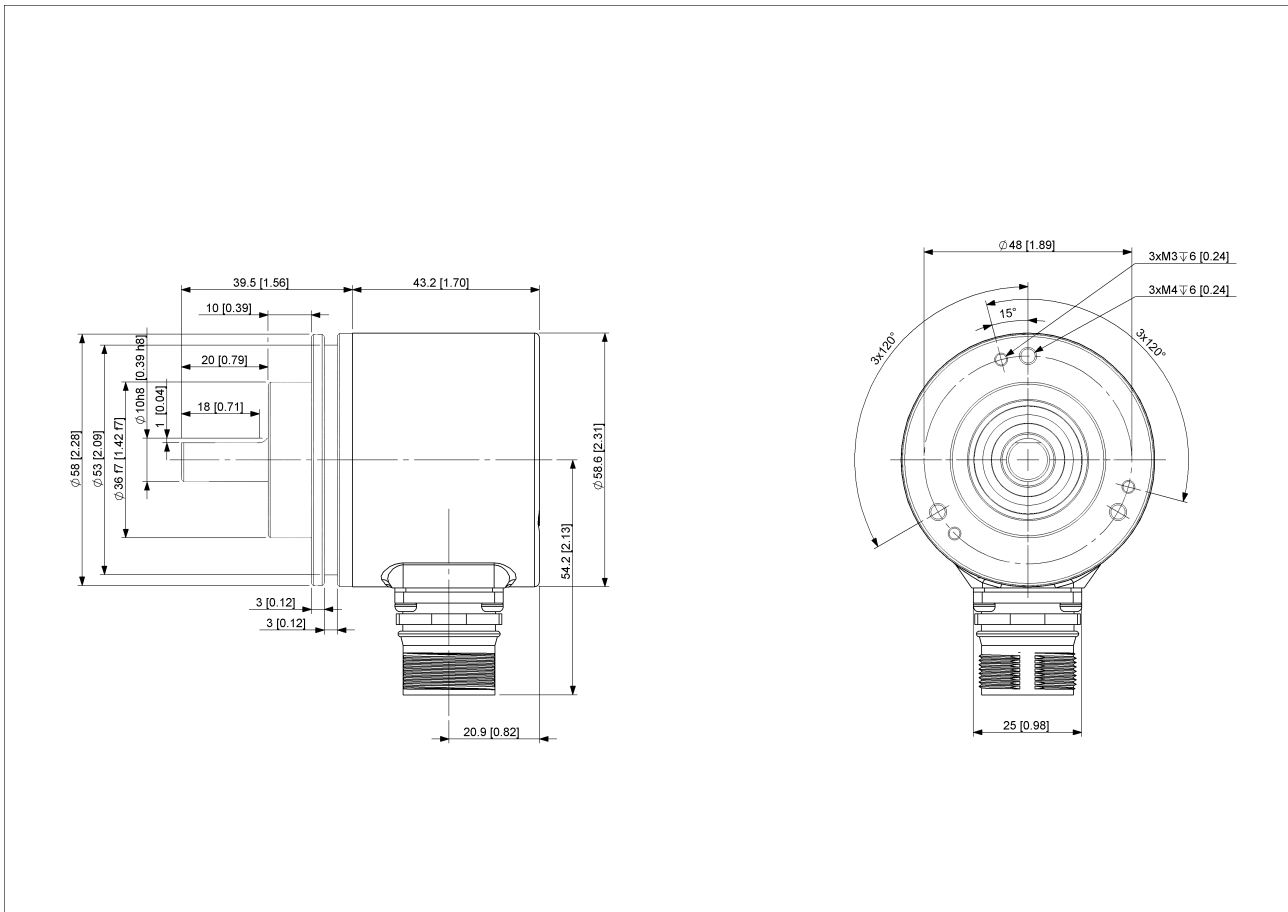
Established



Connection Plan

SIGNAL	PIN NUMBER
Power Supply	11
GND	12
Data+	3
Data-	4
Clock+	2
Clock-	1
Preset	9
DIR	8
Not Connected	5
Not Connected	6
Not Connected	7
Not Connected	10

Connector-View on Encoder



Accessories

Clamp Disc w/ Eccentric Hole-4pcs
 Clamp Disc w/ Centred Hole-4pcs

- Coupling Disc Type-10-12
- Coupling Bellow Type-10-10
- Coupling Bellow Type-06-10
- Coupling Bellow Type-08-10
- Coupling Bellow Type-10-12
- Coupling Bellow Type-10-(1/4")
- Coupling Bellow Type-10-(3/8")
- Coupling Jaw Type-06-10
- Coupling Jaw Type-08-10
- Coupling Jaw Type-10-12
- Coupling Jaw Type-10-(1/4")
- Coupling Jaw Type-10-(3/8")
- Coupling Jaw Type-10-10



Coupling Disc Type-06-10
Coupling Disc Type-10-10
More

Mounting Bracket for Clamping Flange w/ fixtures
L Mounting Bracket w/ screws
Mounting Bracket Spring Loaded f. Clamping Flange

AP21-00 SSI Display
AP21-D0 SSI Display (4 dig. o/p)
AP21-0A SSI Display (analog o/p)
AP21-DA SSI Display (4 dig. + analog o/p)
More

Contact



tsb - bescom b.v.
+31 316250800
info@tsb-bescom.nl

The picture and drawing are for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. All dimension in [inch] mm. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.