



Main

| | |
|------------------------------|-------------------------------------|
| Range of product | OsiSense XCC |
| Encoder type | Multiturn absolute encoder |
| Device short name | XCC |
| Product specific application | - |
| Diameter | 2.28 in (58 mm) |
| Shaft diameter | 0.39 in (10 mm) |
| Shaft type | Solid shaft |
| Resolution | 4096 points/8192 turns |
| Electrical connection | 1 male connector M23 radial 12 pins |
| Output stage | Type SG |
| Type of output stage | SSI 25-bit binary |
| [Us] rated supply voltage | 11...30 V DC |
| Enclosure material | Steel |

Complementary

| | |
|--------------------------|---|
| Residual ripple | 500 mV |
| Maximum revolution speed | 6000 rpm |
| Shaft moment of inertia | 0 lb.in ² (10 g.cm ²) |
| Torque value | 0.04 lbf.in (0.004 N.m) |
| Maximum load | 10 daN radial 5 daN axial |
| Output frequency | 100...500 kHz |
| Current consumption | 0...100 mA no-load |
| Protection type | Reverse polarity protection Short-circuit protection |
| Physical interface | RS422 |
| Output level | High level: 2 V minimum 20 mA |
| Surge withstand | 1 kV level 2 IEC 61000-4-5 |
| Base material | Aluminium |
| Shaft material | Stainless steel |
| Type of ball bearings | 6900ZZ1 |
| Product weight | 1.51 lb(US) (0.685 kg) |

Environment

| | |
|---------------------------------------|--|
| marking | CE |
| ambient air temperature for operation | -4...185 °F (-20...85 °C) |
| ambient air temperature for storage | -4...185 °F (-20...85 °C) |
| IP degree of protection | IP65 IEC 60529 |
| vibration resistance | 10 gn (10...2000 Hz) IEC 60068-2-6 |
| shock resistance | 30 gn (11 ms) IEC 60068-2-27 |
| resistance to electrostatic discharge | 4 kV contact discharge level 3 IEC 61000-4-2 8 kV air discharge level 3 IEC 61000-4-2 |
| resistance to electromagnetic fields | 9.14 V/yd (10 V/m) level 3 IEC 61000-4-3 |
| resistance to fast transients | 1 kV signal ports level 3 IEC 61000-4-4 2 kV power ports level 3 IEC 61000-4-4 |

Offer Sustainability

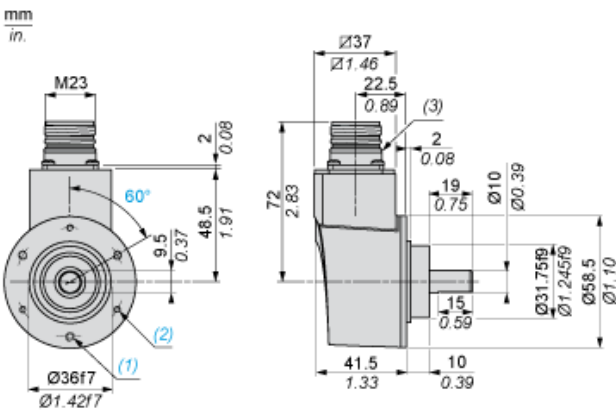
| | |
|---------------------------|---------------------------|
| Not Green Premium product | Not Green Premium product |
|---------------------------|---------------------------|

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions

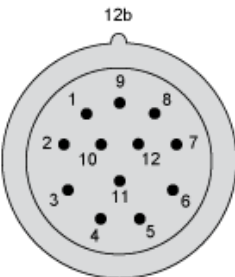


- (1) 3 M4 holes at 120° on 48 PCD, depth: 8 mm
- (2) 3 M3 holes at 120° on 48 PCD, depth: 8 mm
- (3) Nitrile seal

Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



| Pin number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------------|-----|--------|-------|---|------------------|---------------|---|-----|---|--------|-------|----|
| Signal Supply | 0 V | Data + | Clk + | R | Direction (1) | Reset to zero | R | + V | R | Data - | Clk - | R |

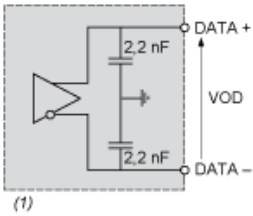
(1) : Clockwise direction

: Anticlockwise direction

R = Reserved (do not connect)

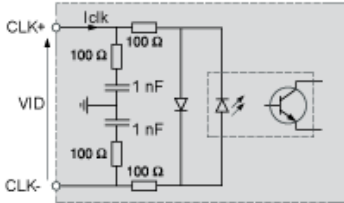
Technical Description

RS 422 Data Output



(1) $I_{data} = 20 \text{ mA}$ $|VOD| > 2 \text{ V}$

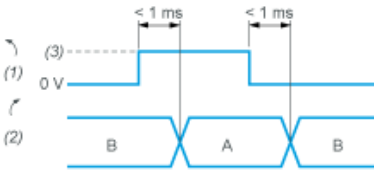
Isolated Clock Input



VID maximum: 5 V

Iclk maximum: 15 mA

DIRECTION Input



A : Anticlockwise

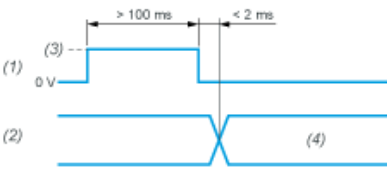
B : Clockwise

(1) DIRECTION input

(2) DIRECTION of counting

(3) V supply

Input Stage - Reset to Zero



(1) Reset input

(2) Position

(3) V supply

(4) Position=0 (Reset to zero)