



Main

| | |
|------------------------------|-------------------------------------|
| Range of product | OsiSense XCC |
| Encoder type | Multiturn absolute encoder |
| Encoder name | XCC |
| Product specific application | - |
| Diameter | 58 mm |
| Shaft diameter | 6 mm |
| Shaft type | Solid shaft |
| Resolution | 4096 turns/8192 points |
| Electrical connection | 1 male connector M23 radial 12 pins |
| Output stage | Type SG |
| Type of output stage | SSI 25-bit gray |
| [Us] rated supply voltage | 11...30 V DC |
| Enclosure material | Steel |

Complementary

| | |
|--------------------------|---|
| Shaft tolerance | G7 |
| Residual ripple | 0...500 mV |
| Maximum revolution speed | 6000 rpm |
| Shaft moment of inertia | 10 g.cm ² |
| Torque value | 0.004 N.m |
| Maximum load | 5 daN axial 10 daN radial |
| 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 | 0.725 kg |

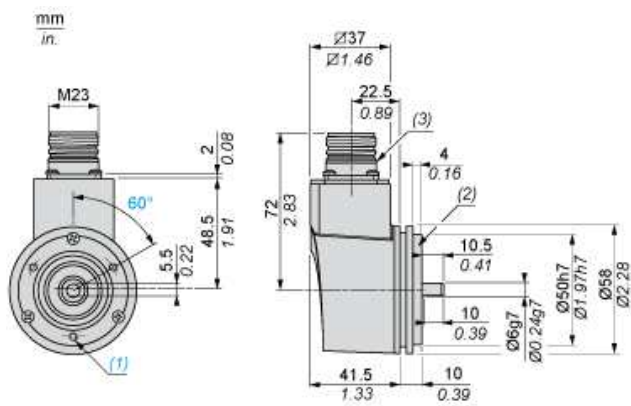
Environment

| | |
|---------------------------------------|--|
| Marking | CE |
| Ambient air temperature for operation | -20...85 °C |
| Ambient air temperature for storage | -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 | 8 kV air discharge level 3 IEC 61000-4-2 4 kV contact discharge level 3 IEC 61000-4-2 |
| Resistance to electromagnetic fields | 10 V/m level 3 IEC 61000-4-3 |
| Resistance to fast transients | 2 kV power ports level 3 IEC 61000-4-4 1 kV signal ports level 3 IEC 61000-4-4 |

Offer Sustainability

| | |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0701 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |

Dimensions

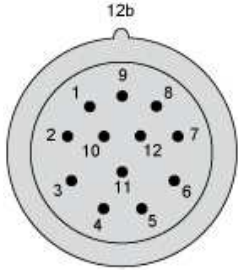


- (1) 3 M4 holes at 120° on 42 PCD, depth: 10 mm
- (2) Collar XCCRB1 mounted
- (3) Nitrile seal



Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



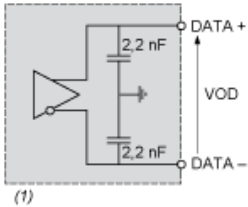
| Pin number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------------|-----|--------|-------|---|------------------|---------------|---|-----|---|--------|-------|----|
| Signal Supply | 0 V | Data + | Clk + | R | Direction (1) | Reset to zero | R | + V | R | Data - | Clk - | R |

- (1)  : Clockwise direction
 : Anticlockwise direction

R = Reserved (do not connect)

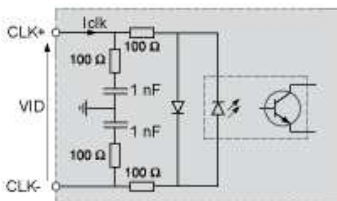
Technical Description

RS 422 Data Output



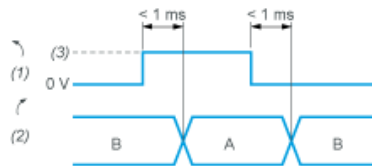
(1) $I_{data} = 20 \text{ mA}$ $|VOD| > 2 \text{ V}$

Isolated Clock Input



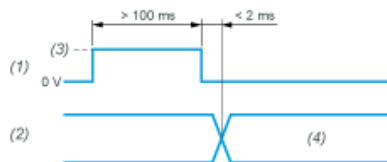
VID maximum: 5 V
 Iclk maximum: 15 mA

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)