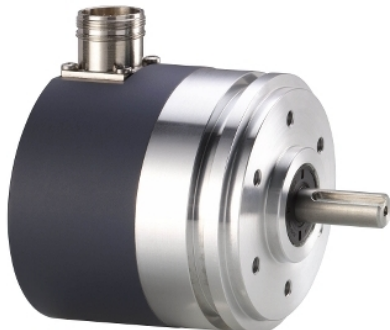


Product availability: Non-Stock - Not normally stocked in distribution facility



## Main

|                              |                                     |
|------------------------------|-------------------------------------|
| Range of product             | OsiSense XCC                        |
| Encoder type                 | Multiturn absolute encoder          |
| Device short name            | XCC                                 |
| Product specific application | -                                   |
| Diameter                     | 3.54 in (90 mm)                     |
| Shaft diameter               | 0.47 in (12 mm)                     |
| Shaft type                   | Solid shaft                         |
| Resolution                   | 4096 turns/8192 points              |
| Electrical connection        | 1 male connector M23 radial 12 pins |
| Output stage                 | Type SB                             |
| Type of output stage         | SSI 25-bit binary                   |
| [Us] rated supply voltage    | 11...30 V DC                        |
| Enclosure material           | Zamak                               |

## Complementary

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| Shaft tolerance          | G6                                                      |
| Residual ripple          | 500 mV                                                  |
| Maximum revolution speed | 6000 rpm                                                |
| Shaft moment of inertia  | 0.05 lb.in <sup>2</sup> (150 g.cm <sup>2</sup> )        |
| Torque value             | 0.09 lbf.in (0.01 N.m)                                  |
| Maximum load             | 10 daN axial<br>20 daN radial                           |
| Output frequency         | 100...500 kHz                                           |
| Current consumption      | 0...100 mA no-load                                      |
| Protection type          | Short-circuit protection<br>Reverse polarity 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    | 6000ZZ                                                  |
| Product weight           | 4.06 lb(US) (1.84 kg)                                   |

## Environment

|                                       |                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------|
| Marking                               | CE                                                                                       |
| Ambient air temperature for operation | -4...185 °F (-20...85 °C)                                                                |
| Ambient air temperature for storage   | -22...185 °F (-30...85 °C)                                                               |
| IP degree of protection               | IP66 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<br>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<br>2 kV power ports level 3 IEC 61000-4-4        |

## Ordering and shipping details

|                       |                            |
|-----------------------|----------------------------|
| Category              | 22486 - SENSORS, PROXIMITY |
| Discount Schedule     | DS2                        |
| GTIN                  | 003389119056243            |
| Nbr. of units in pkg. | 1                          |
| Package weight(Lbs)   | 4.049999999999998          |
| Returnability         | N                          |
| Country of origin     | FR                         |

## Offer Sustainability

|                            |                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS (date code: YYWW)     | Compliant - since 0701 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity |
| REACH                      | Reference not containing SVHC above the threshold                                                                                                                                                      |
| California proposition 65  | WARNING: This product can expose you to chemicals including:                                                                                                                                           |
| - - - - - Substance 1      | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                                                                                            |
| - - - - - Substance 2      | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.                                                                             |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                                                                                          |

## Contractual warranty

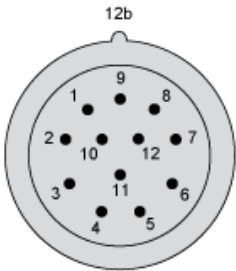
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

- (1) 6 holes M6 x 1 at 120° on 60 PCD, depth: 12 mm maximum

Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



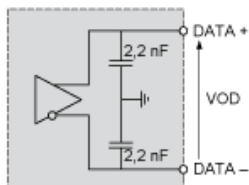
| Pin number    | 1   | 2      | 3     | 4 | 5                | 6             | 7 | 8   | 9 | 10     | 11    | 12 |
|---------------|-----|--------|-------|---|------------------|---------------|---|-----|---|--------|-------|----|
| Signal Supply | 0 V | Data + | Clk + | R | Direction<br>(1) | Reset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

(1)  : Clockwise direction  
 : Anticlockwise direction

R = Reserved (do not connect)

## Technical Description

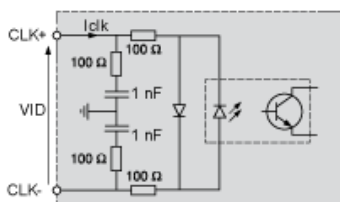
### RS 422 Data Output



(1)

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

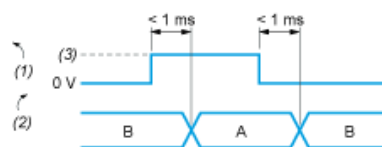
### Isolated Clock Input



VID maximum: 5 V

Iclk maximum: 15 mA

### DIRECTION Input



A : Anticlockwise

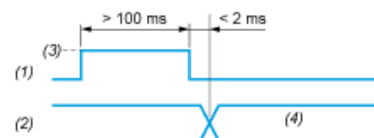
B : Clockwise

(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)

# Mouser Electronics

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