



Main

Range of product	OsiSense XCC
Encoder type	Single turn absolute encoder
Device short name	XCC
Product specific application	-
Diameter	58 mm
Shaft diameter	6 mm
Shaft type	Solid shaft
Resolution	8192 points
Electrical connection	1 male connector M23 radial 16 pins
Output stage	Type KB
Type of output stage	Driver push-pull binary
[Us] rated supply voltage	11...30 V DC
Enclosure material	Zamak

Complementary

Shaft tolerance	G7
Residual ripple	500 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	10 g.cm ²
Torque value	0.004 N.m
Maximum load	10 daN radial 5 daN axial
Output frequency	100 kHz
Current consumption	0...100 mA no-load
Protection type	Short-circuit protection Reverse polarity protection
Maximum output current	20 mA
Output level	Low level: 0.5 V maximum 20 mA High level: V supply - 2.5 V minimum 20 mA
Surge withstand	1 kV, level 2 conforming to IEC 61000-4-5
Base material	Aluminium

Disclaimer: 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

Shaft material	Stainless steel
Type of ball bearings	6000ZZ1
Product weight	0.495 kg

Environment

Marking	CE
Ambient air temperature for operation	-20...90 °C
Ambient air temperature for storage	-30...95 °C
IP degree of protection	IP65 conforming to IEC 60529
Vibration resistance	10 gn (f= 10...2000 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	4 kV (contact discharge) level 3 conforming to IEC 61000-4-2 8 kV (air discharge) level 3 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV signal ports level 3 conforming to IEC 61000-4-4 2 kV power ports level 3 conforming to IEC 61000-4-4

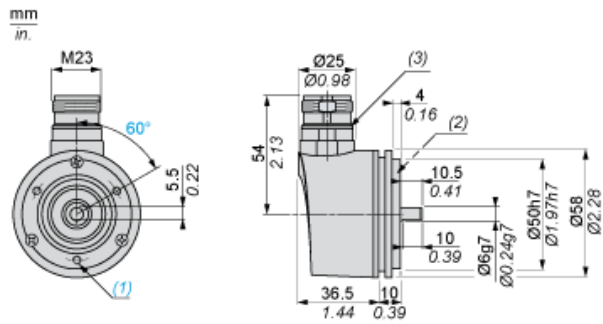
Offer Sustainability

RECh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months
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Dimensions

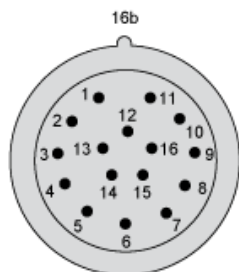


- (1) 3 M4 holes at 120° on 42 PCD, depth: 10 mm
- (2) Collar XCCRB1 mounted
- (3) Nitrile seal

Wiring Diagram

M23, 16-pin Connector, Anticlockwise Connections

Male Connector on Encoder

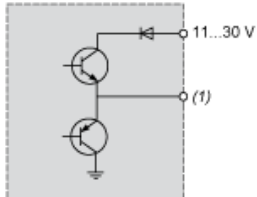


Pin number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Signal Supply	0 V	+V	d0	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	d12	Dir (1)

- (1) : Clockwise direction, 16 to + V
 : Anticlockwise direction, 16 to 0 V

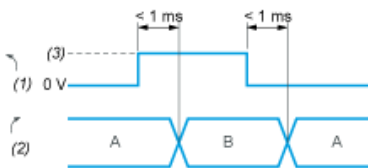
Technical Description

Type KB and KG (N) Output Stage



(1) Output

KB and KG (N) DIRECTION Input



- A : Anticlockwise
- B : Clockwise
- (1) DIRECTION input
- (2) DIRECTION of counting
- (3) V supply