



Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	2.28 in (58 mm)
Shaft diameter	0.55 in (14 mm)
Shaft type	Through shaft
Resolution	5000 points
Output stage	Type Y
Type of output stage	Driver push-pull
Electrical connection	1 male connector M23 radial 12 pins
[Us] rated supply voltage	5...30 V DC
Enclosure material	Zamak

Complementary

Shaft tolerance	H7
Residual ripple	500 mV
Maximum revolution speed	6000 rpm
Shaft moment of inertia	0.01 lb.in ² (22 g.cm ²)
Torque value	0.05 lbf.in (0.006 N.m)
Maximum load	2 daN axial 5 daN radial
Output frequency	300 kHz
Number of channels	3
Current consumption	0...75 mA no-load
Protection type	Short-circuit protection Reverse polarity protection
Maximum output current	40 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 IEC 61000-4-5
Base material	Aluminium
Shaft material	Stainless steel
Type of ball bearings	6803ZZ
Net Weight	0.96 lb(US) (0.435 kg)

Environment

Marking	CE
Ambient air temperature for operation	-22...212 °F (-30...100 °C)
Ambient air temperature for storage	-22...185 °F (-30...85 °C)
IP degree of protection	IP65 IEC 60529
Vibration resistance	10 gn 55...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/m (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



Ordering and shipping details

Category	21581 - ENCODERS, XCC
Discount Schedule	DS2
GTIN	03389119014861
Nbr. of units in pkg.	1
Package weight(Lbs)	0.96 lb(US) (0.44 kg)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.35 in (8.5 cm)
Package 1 width	5.51 in (14 cm)
Package 1 Length	10.63 in (27 cm)

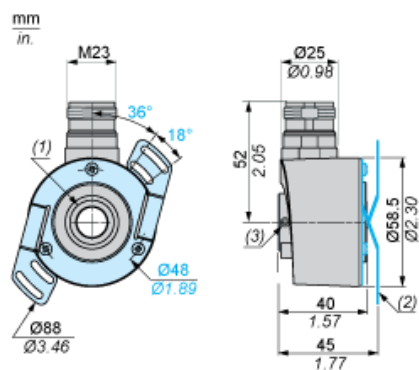
Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP) and Diisononyl phthalate (DINP) which is known to the State of California to cause Carcinogen and Reproductive harm. For more information go to www.p65warnings.ca.gov
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

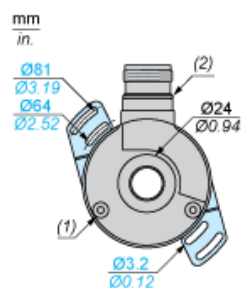
Contractual warranty

Warranty	18 months
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Dimensions



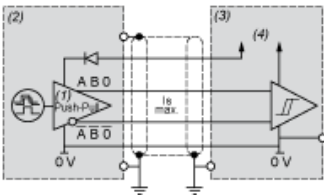
- (1) Through shaft, Ø 14 (H7)
- (2) Flexible mounting kit, 1 x XCCRF5N mounted
- (3) 2 HC M4 x 4 locking screws



- (1) Hole for M3 x 6 self-threading screw
- (2) Nitrile seal

Wiring Diagram

Type Y Output Stage

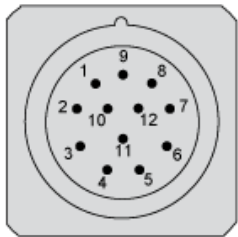


- (1) RS 422 compatible on 5 V supply
- (2) Encoder
- (3) Processing
- (4) Supply 5 V/30 V

Wiring Diagram

M23, 12-pin Connector Connections

Male Connector on Encoder



Pin number	1	2	3	4	5	6	7	8	9	10	11	12
Signal Supply	A ⁻	+V	0	0 ⁻	B	B ⁻	R	A	R	0 V	0 V	+V

R = reserved, do not connect