

# XCC1406TR03R

incremental encoder Ø 40 - through shaft 6 mm  
- 360 points - 5V RS422



## Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	1.57 in (40 mm)
Shaft diameter	0.24 in (6 mm)
Shaft type	Through shaft
Resolution	360 points
Output stage	Type R
Type of output stage	Driver 5V, RS422
Electrical connection	Cable radial shielded
Cable length	6.56 ft (2 m)
Cable composition	8 x 0.14 mm <sup>2</sup>
[Us] rated supply voltage	5 V DC
Supply voltage limits	4.5...5.5 V DC
Enclosure material	Aluminium Zamak

## Complementary

Shaft tolerance	H7
Cable outer diameter	0.24 in (6 mm)
Residual ripple	200 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	0.00 lb.in <sup>2</sup> (5 g.cm <sup>2</sup> )
Torque value	0.02 lbf.in (0.0025 N.m)
Maximum load	1 daN axial 2 daN radial
Output frequency	100 kHz
Number of channels	3
Current consumption	0...100 mA no-load
Maximum output current	40 mA
Output level	Low level: 0.5 V maximum 20 mA High level: 2.5 V minimum 20 mA
Surge withstand	1 kV, level 2 IEC 61000-4-5
Base material	Zamak Aluminium
Shaft material	Stainless steel Aluminium
Type of ball bearings	688AZZ1
Net Weight	0.89 lb(US) (0.405 kg)

## Environment

Marking	CE
Ambient air temperature for operation	-4...176 °F (-20...80 °C)
Ambient air temperature for storage	-22...185 °F (-30...85 °C)
IP degree of protection	IP52 IEC 60529
Vibration resistance	10 gn 10...500 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	03389110939996
Nbr. of units in pkg.	1
Package weight(Lbs)	1.76 lb(US) (0.80 kg)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	0.39 in (1 cm)
Package 1 width	5.91 in (15 cm)
Package 1 Length	4.92 in (12.5 cm)

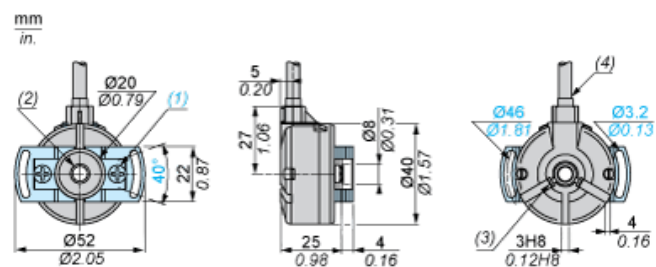
## Offer Sustainability

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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	 Yes

## Contractual warranty

Warranty	18 months
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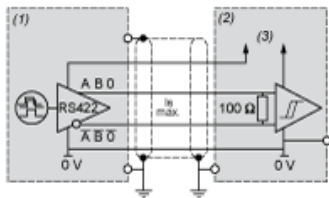
## Dimensions



- (1) 2 M4 holes at 120° for cross-headed screws on 30 PCD, depth: 6 mm
- (2) Through shaft, Ø 6 (H7)
- (3) 2 M2 x 3 flat cross-headed locking screws
- (4) Ø 6 cable, length 2 m, minimum bend radius: 30 mm

Wiring Diagram

Type R Output Stage



- (1) Encoder
- (2) Processing
- (3) Supply 5 V

Wiring Diagram

Cable Connections

Wire colour	BN	RD	VT	BU	YE	OG	GN	BK
Signal Supply	A <sup>-</sup>	+V	0	0 <sup>-</sup>	B	B <sup>-</sup>	A	0V

BN = Brown

RD = Red

VT = Violet

BU = Blue

YE = Yellow

OG = Orange

GN = Green

BK = Black