

XCC1406TR05R

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



Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	40 mm
Shaft diameter	6 mm
Shaft type	Through shaft
Resolution	500 points
Output stage	Type R
Type of output stage	Driver 5V, RS422
Electrical connection	Cable radial shielded
Cable length	2 m
Cable composition	8 x 0.14 mm ²
[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	6 mm
Residual ripple	200 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	5 g.cm ²
Torque value	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 conforming to IEC 61000-4-5
Base material	Aluminium Zamak
Shaft material	Aluminium Stainless steel
Type of ball bearings	688AZZ1
Net weight	0.405 kg

Environment

Marking	CE
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-30...85 °C
IP degree of protection	IP52 conforming to IEC 60529
Vibration resistance	10 gn (f= 10...500 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

Packing Units

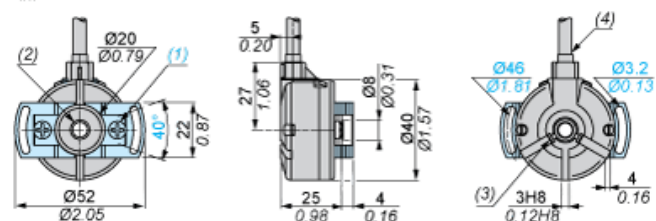
Unit Type of Package 1	PCE
Number of Units in Package 1	1

Offer Sustainability

Toxic heavy metal free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

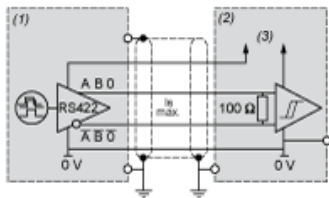
Warranty	18 months
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$$\frac{\text{mm}}{\text{in.}}$$


- (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 ⁻	+V	0	0 ⁻	B	B ⁻	A	0V

BN = Brown

RD = Red

VT = Violet

BU = Blue

YE = Yellow

OG = Orange

GN = Green

BK = Black