Product data sheet
Characteristics

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 mm²
[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	0...200 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	5 g.cm²
Torque value	0.0025 N.m
Maximum load	2 daN radial 1 daN axial
Output frequency	100 kHz
Number of channels	3
Current consumption	0...100 mA (no-load)
Maximum output current	40 mA
Output level	High level: 2.5 V minimum (20 mA) Low level: 0.5 V maximum (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
Product weight	0.405 kg

Environment

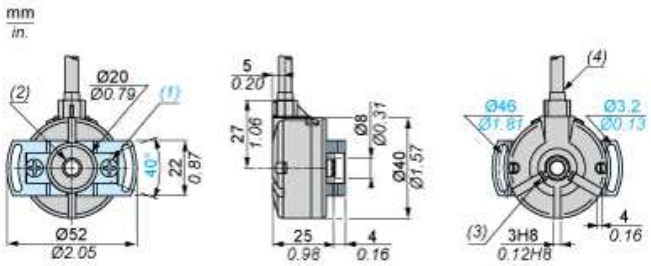
Marking	CE
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-30...85 °C
IP degree of protection	IP52 conforming to IEC 60529
Vibration resistance	10 gn (f = 10...500 Hz) conforming to IEC 60068-2-6

Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV (air discharge) level 3 conforming to IEC 61000-4-2 4 kV (contact 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	2 kV (power ports) level 3 conforming to IEC 61000-4-4 1 kV (signal ports) level 3 conforming to IEC 61000-4-4

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

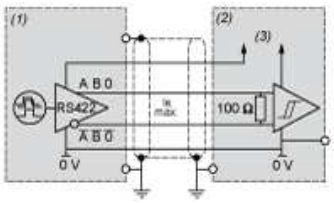
Dimensions



(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^-	+V	0	0^-	B	B^-	A	0V

BN = Brown
RD = Red
VT = Violet
BU = Blue
YE = Yellow
OG = Orange
GN = Green
BK = Black