Product data sheet
Characteristics

XCC1406TR11R
incremental encoder Ø 40 - through shaft 6 mm - 1024 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	1024 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	200 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	5 g.cm²
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
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	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

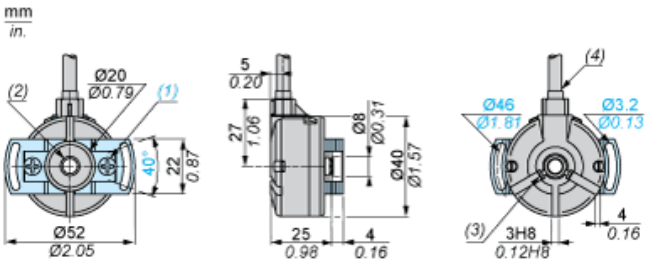
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

Contractual warranty

Warranty period	18 months

XCC1406TR11R

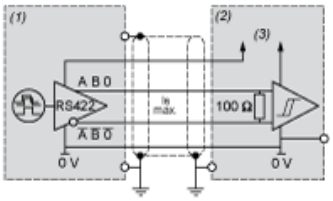
Dimensions



(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