Product data sheet
Characteristics

XCC1510PS10X
incremental encoder Ø 58 - solid shaft 10 mm - 1000 points - 5V RS422



Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	58 mm
Shaft diameter	10 mm
Shaft type	Solid shaft
Resolution	1000 points
Output stage	Type X
Type of output stage	Driver 5V, RS422
Electrical connection	1 male connector M23 radial 12 pins
[Us] rated supply voltage	4.75...30 V DC
Enclosure material	Zamak

Complementary

Residual ripple	0...500 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	10 g.cm²
Torque value	0.004 N.m
Maximum load	5 daN axial 10 daN radial
Output frequency	300 kHz
Number of channels	3
Current consumption	0...75 mA (no-load)
Protection type	Reverse polarity protection Short-circuit protection
Maximum output current	40 mA
Output level	High level: 4.5 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
Shaft material	Stainless steel
Type of ball bearings	6000ZZ1
Product weight	0.465 kg

Environment

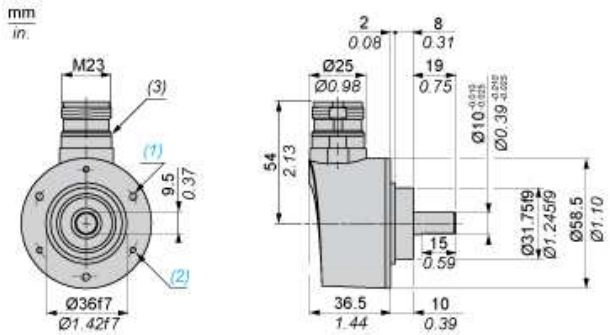
Marking	CE
Ambient air temperature for operation	-30...100 °C
Ambient air temperature for storage	-30...85 °C
IP degree of protection	IP65 conforming to IEC 60529
Vibration resistance	10 gn (f = 55...2000 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Resistance 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
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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

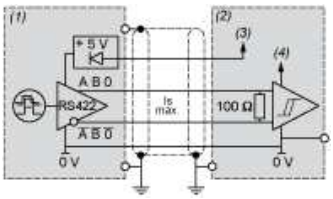
Dimensions



(1) 3 M4 holes at 120° on 48 PCD, depth: 8 mm
(2) 3 M3 holes at 120° on 48 PCD, depth: 8 mm
(3) Nitrile seal

Wiring Diagram

Type X Output Stage

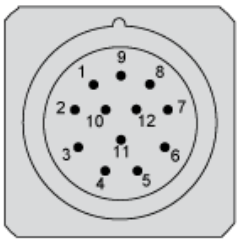


(1) Encoder
(2) Processing
(3) Supply 4.75 V/30 V
(4) Supply 5 V

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