Product data sheet
Characteristics

XCC1510SPA11Y
incremental encoder Ø58 stainless steel - solid shaft 10mm - 1024pts - push-pull

Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	Food and beverage
Diameter	58 mm
Shaft diameter	10 mm
Shaft type	Solid shaft
Resolution	1024 points
Output stage	Type Y
Type of output stage	Driver push-pull
Electrical connection	Cable axial shielded
Cable length	2 m
Cable composition	8 x 0.14 mm²
Cable insulation material	Silicone
[Us] rated supply voltage	5...30 V DC
Enclosure material	Stainless steel 316 L

Complementary

Shaft tolerance	G6
Cable outer diameter	6 mm
Residual ripple	0...500 mV
Maximum revolution speed	3000 rpm
Shaft moment of inertia	12 g.cm²
Torque value	0.09 N.m
Maximum load	25 daN radial 50 daN axial
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: V supply - 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	Stainless steel 316 L
Shaft material	Stainless steel 316 L
Type of ball bearings	6000
Product weight	0.86 kg

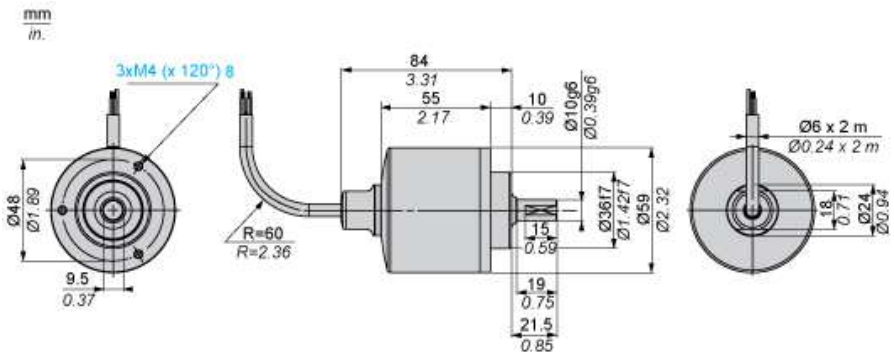
Environment

Marking	CE
Ambient air temperature for operation	-30...100 °C
Ambient air temperature for storage	-40...100 °C
IP degree of protection	IP69K conforming to IEC 60529 IP68 conforming to IEC 60529
Vibration resistance	10 gn (f = 55...2000 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 6 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 1203 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

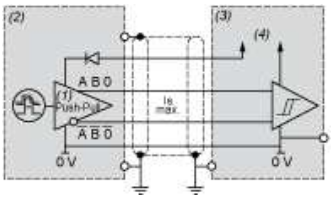
Dimensions



R : Minimum bend radius = 60 mm

Wiring Diagram

Type Y Output Stage



(1) RS 422 compatible on 5 V supply
(2) Encoder
(3) Processing
(4) Supply 5 V/30 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