

# XCC1510PS11Y

Opto-electronic rotary encoders XCC,  
incremental encoder Ø 58, solid shaft 10 mm,  
1024 points, push pull



## Main

Range of Product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product Specific Application	-
Diameter	2.28 in (58 mm)
Shaft diameter	0.39 in (10 mm)
Shaft type	Solid shaft
Resolution	1024 points
Output stage	Type Y
Type of output stage	Driver push-pull
Electrical connection	1 male connector M23 radial 12 pins
[Us] rated supply voltage	5...30 V DC
Enclosure Material	Zamak

## Complementary

Residual ripple	500 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	0.00 lb.in <sup>2</sup> (10 g.cm <sup>2</sup> )
Torque Value	0.04 lbf.in (0.004 N.m)
Maximum load	10 daN radial 5 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	Low level: 0.5 V maximum 20 mA High level: V supply - 2.5 V minimum 20 mA
Surge withstand	1 kV, level 2 IEC 61000-4-5
Base material	Aluminium
Shaft material	Stainless steel
Type of ball bearings	6000ZZ1
Net Weight	1.03 lb(US) (0.465 kg)

## Environment

Marking	CE
Ambient air temperature for operation	-22...212 °F (-30...100 °C)
Ambient Air Temperature for Storage	-22...185 °F (-30...85 °C)
IP degree of protection	IP65 conforming to IEC 60529
Vibration resistance	10 gn 55...2000 Hz)IEC 60068-2-6
Shock resistance	30 gn 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	4 kV contact discharge) level 3 IEC 61000-4-2 8 kV air discharge) level 3 IEC 61000-4-2

Resistance to electromagnetic fields	9.14 V/m (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV signal ports level 3 IEC 61000-4-4 2 kV power ports level 3 IEC 61000-4-4

### Ordering and shipping details

Category	US10DS221581
Discount Schedule	0DS2
GTIN	3389119014694
Returnability	No
Country of origin	FR

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.51 in (14 cm)
Package 1 Width	10.55 in (26.8 cm)
Package 1 Length	3.86 in (9.8 cm)
Package 1 Weight	16.01 oz (454 g)

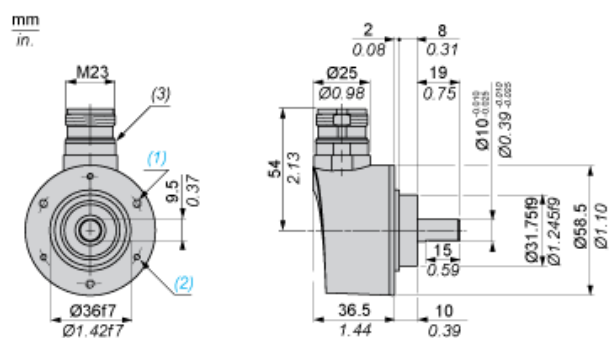
### Offer Sustainability

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 Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
Toxic heavy metal free	Yes
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

### Contractual warranty

Warranty	18 months
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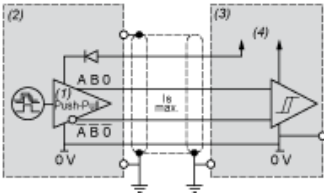
## Dimensions



- (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 Y Output Stage

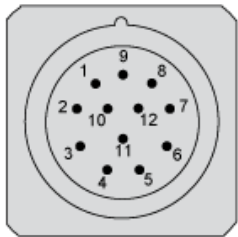


- (1) RS 422 compatible on 5 V supply
- (2) Encoder
- (3) Processing
- (4) Supply 5 V/30 V

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 <sup>-</sup>	+V	0	0 <sup>-</sup>	B	B <sup>-</sup>	R	A	R	0 V	0 V	+V

R = reserved, do not connect