

# XCC1912PS01KN

incremental encoder Ø 90 - solid shaft 12 mm -  
100 points - push-pull



## Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	90 mm
Shaft diameter	12 mm
Shaft type	Solid shaft
Resolution	100 points
Output stage	Type K
Type of output stage	Driver push-pull
Electrical connection	1 male connector M23 radial 12 pins
[Us] rated supply voltage	11...30 V DC
Enclosure material	Zamak

## Complementary

Shaft tolerance	G6
Residual ripple	500 mV
Maximum revolution speed	6000 rpm
Shaft moment of inertia	150 g.cm <sup>2</sup>
Torque value	0.01 N.m
Maximum load	10 daN axial 20 daN radial
Output frequency	100 kHz
Number of channels	3
Current consumption	0...75 mA no-load
Protection type	Short-circuit protection Reverse polarity protection
Maximum output current	40 mA
Output level	Low level: 1.5 V maximum 20 mA High level: V supply - 3 V minimum 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	6001ZZ
Net weight	1.36 kg

## Environment

Marking	CE
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-30...85 °C
IP degree of protection	IP66 conforming to IEC 60529
Vibration resistance	10 gn (f= 10...1000 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

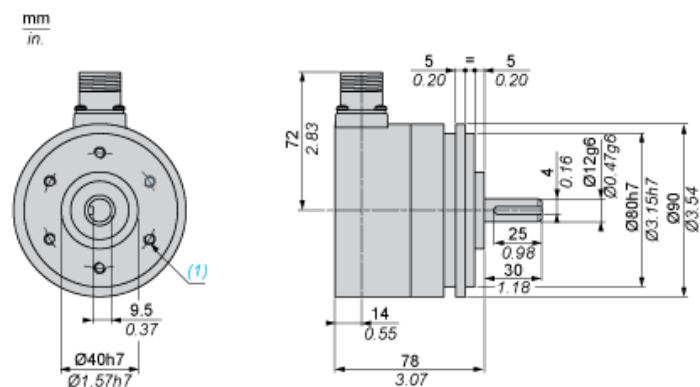
### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

### Contractual warranty

Warranty	18 months
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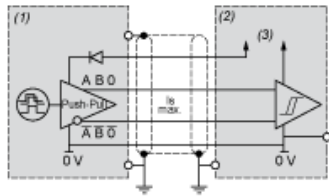
## Dimensions



(1) 6 holes M6 x 1 at 120° on 60 PCD, maximum depth: 12 mm

Wiring Diagram

Type K Output Stage

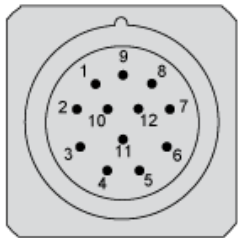


- (1) Encoder
- (2) Processing
- (3) Supply 11 V/30 V

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