

XCC2912PS81SBN

absolute encoder Ø 90 single turn - solid shaft
12 mm - push-pull 13-bit binary

Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Commercial Status	Commercialised
Range of product	OsiSense XCC
Encoder type	Single turn absolute encoder
Encoder name	XCC
Product specific application	-
Diameter	3.54 in (90 mm)
Shaft diameter	0.47 in (12 mm)
Shaft type	Solid shaft
Resolution	8192 points
Electrical connection	1 male connector M23 radial 12 pins
Output stage	Type SB
Type of output stage	SSI 13-bit binary
[Us] rated supply voltage	11...30 V DC
Enclosure material	Zamak

Complementary

Shaft tolerance	G6
Residual ripple	0...500 mV
Maximum revolution speed	6000 rpm
Shaft moment of inertia	0.05 lb.in ² (150 g.cm ²)
Torque value	0.09 lbf.in (0.01 N.m)
Maximum load	20 daN radial 10 daN axial
Output frequency	100...1000 kHz
Current consumption	0...100 mA no-load
Protection type	Reverse polarity protection Short-circuit protection
Maximum output current	20 mA
Physical interface	RS422
Output level	High level: 2 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	6001ZZ
Product weight	3.02 lb(US) (1.37 kg)

Environment

Marking	CE
Ambient air temperature for operation	-4...185 °F (-20...85 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
IP degree of protection	IP66 IEC 60529
Vibration resistance	10 gn (10...2000 Hz) IEC 60068-2-6
Shock resistance	30 gn (11 ms) IEC 60068-2-27
Resistance to electrostatic discharge	8 kV air discharge level 3 IEC 61000-4-2 4 kV contact discharge level 3 IEC 61000-4-2

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

Ordering and shipping details

Category	21581 - ENCODERS, XCC
Discount Schedule	DS2
GTIN	003389119015578
Nbr. of units in pkg.	1
Package weight(Lbs)	3.01
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N
Country of origin	FR

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0701 - Schneider Electric declaration of conformity

Contractual warranty

Period	18 months
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Mouser Electronics

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