

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

Range of product	OsiSense XCC
Encoder type	Single turn absolute encoder
Device short 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	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	10 daN axial 20 daN radial
Output frequency	100...1000 kHz
Current consumption	0...100 mA no-load
Protection type	Short-circuit protection Reverse polarity 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	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/yd (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	21581 - ENCODERS, XCC
Discount Schedule	DS2
GTIN	003389119015578
Nbr. of units in pkg.	1
Package weight(Lbs)	3.0100000000000002
Returnability	N
Country of origin	FR

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
- - - - - Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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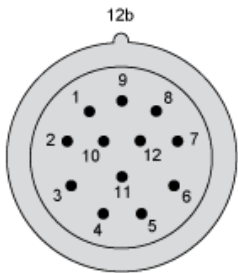
[illegible]

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

Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



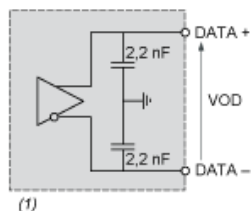
Pin number	1	2	3	4	5	6	7	8	9	10	11	12
Signal Supply	0 V	Data +	Clk +	R	Direction (1)	R	R	+ V	R	Data -	Clk -	R

(1) : Clockwise direction, 5 to 0 V
: Anticlockwise direction, 5 to + V

R = Reserved (do not connect)

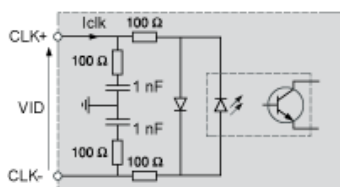
Technical Description

RS 422 Data Output



(1) $I_{data} = 20 \text{ mA}$ $|VOD| > 2 \text{ V}$

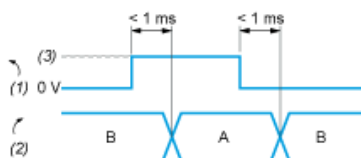
Isolated Clock Input



VID maximum: 5 V

Iclk maximum: 15 mA

DIRECTION Input



A : Anticlockwise

B : Clockwise

(1) DIRECTION input

(2) DIRECTION of counting

(3) V supply

Mouser Electronics

Authorized Distributor

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