XCC2510PS81SBN

Opto-electronic rotary encoders XCC, absolute encoder \varnothing 58 single turn, solid shaft 10 mm, push pull 13 bit binary



Main

Range of product	OsiSense XCC			
Encoder type	Single turn absolute encoder			
Device short name	XCC			
Product specific application	-			
Diameter	58 mm			
Shaft diameter	10 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	1130 V DC			
Enclosure material	Zamak			

Complementary

Complementary						
Residual ripple	500 mV					
Maximum revolution speed	9000 rpm					
Shaft moment of inertia	10 g.cm²					
Torque value	0.004 N.m					
Maximum load	10 daN radial 5 daN axial					
Output frequency	1001000 kHz					
Current consumption	0100 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 conforming to IEC 61000-4-5					
Base material	Aluminium					
Shaft material	Stainless steel					
Type of ball bearings	6000ZZ1					
Net weight	0.46 kg					

Environment

Marking	CE						
Ambient air temperature for operation	-2090 °C						
Ambient air temperature for storage	-3095 °C						
IP degree of protection	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529						
Vibration resistance	10 gn (f= 102000 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						

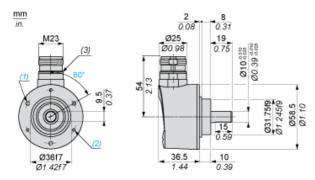
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3						
Resistance to fast transients	1 KV signal ports level 3 conforming to IEC 61000-4-4 2 kV power ports level 3 conforming to IEC 61000-4-4						
Packing Units							
Unit Type of Package 1	PCE						
Number of Units in Package 1	1						
Package 1 Height	8.5 cm						
Package 1 Width	14 cm						
Package 1 Length	27 cm						
Package 1 Weight	460 g						
Offer Sustainability Toxic heavy metal free	Yes						
	Yes WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov						
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California proposition 65 For all Reach Rohs enquiries contact us at	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov						
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Product data sheet **Dimensions Drawings**

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Dimensions



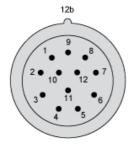
- 3 M4 holes at 120° on 48 PCD, depth: 8 mm 3 M3 holes at 120° on 48 PCD, depth: 8 mm
- Nitrile seal

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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

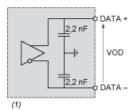
↑: Anticlockwise direction, 5 to + V

R = Reserved (do not connect)

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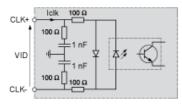
Technical Description

RS 422 Data Output



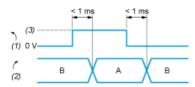
(1) Idata = 20 mA |VOD| > 2 V

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