XCC2510PS81KB

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 16 pins				
Output stage	Type KB				
Type of output stage	Driver push-pull binary				
[Us] rated supply voltage	1130 V DC				
Enclosure material	Zamak				

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	100 kHz	
Current consumption	0100 mA no-load	
Protection type	Reverse polarity protection Short-circuit protection	
Maximum output current	20 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 conforming to IEC 61000-4-5	
Base material	Aluminium	
Shaft material	Stainless steel	
Type of ball bearings	6000ZZ1	
Net weight	0.465 kg	

Environment

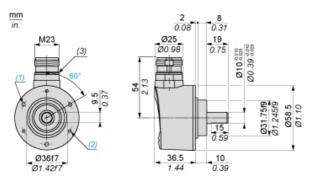
Marking	CE						
Ambient air temperature for operation	-2090 °C						
Ambient air temperature for storage	-3095 °C						
IP degree of protection	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529						
Vibration resistance	10 gn (f= 102000 Hz) conforming to IEC 60068-2-6						
Shock resistance	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	465 g							
Offer Sustainability Toxic heavy metal free	Yes							
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 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							
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com							
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com							
For all Reach Rohs enquiries contact us at Contractual warranty	sustainability@tesensors.com							

Product data sheet **Dimensions Drawings**

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Dimensions



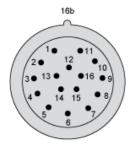
- 3 M4 holes at 120° on 48 PCD, depth: 8 mm 3 M3 holes at 120° on 48 PCD, depth: 8 mm
- Nitrile seal

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Wiring Diagram

M23, 16-pin Connector, Anticlockwise Connections

Male Connector on Encoder



Pin number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Signal Supply	0 V	+V	d0	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	d12	Dir
																7
																(1)

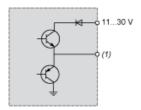
(1) Clockwise direction, 16 to + V

T: Anticlockwise direction, 16 to 0 V

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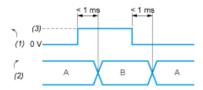
Technical Description

Type KB and KG (N) Output Stage



(1) Output

KB and KG (N) DIRECTION Input



A : Anticlockwise

B : Clockwise

(1) DIRECTION input(2) DIRECTION of counting

(3) V supply