XCC3506PS48SBN



Main

Range of product	OsiSense XCC
Encoder type	Multiturn absolute encoder
Device short name	XCC
Product specific application	-
Diameter	2.28 in (58 mm)
Shaft diameter	0.24 in (6 mm)
Shaft type	Solid shaft
Resolution	4096 points/8192 turns
Electrical connection	1 male connector M23 radial 12 pins
Output stage	Type SG
Type of output stage	SSI 25-bit binary
[Us] rated supply voltage	1130 V DC
Enclosure material	Steel

Complementary

Shaft tolerance	G7	
Residual ripple	500 mV	
Maximum revolution speed	6000 rpm	
Shaft moment of inertia	0 lb.in² (10 g.cm²)	
Torque value	0.04 lbf.in (0.004 N.m)	
Maximum load	10 daN radial 5 daN axial	
Output frequency	100500 kHz	
Current consumption	0100 mA no-load	
Protection type	Reverse polarity protection Short-circuit protection	
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	6900ZZ1	
Product weight	1.6 lb(US) (0.725 kg)	

Environment

marking	CE	
ambient air temperature for operation	-4185 °F (-2085 °C)	
ambient air temperature for storage	-4185 °F (-2085 °C)	_
IP degree of protection	IP65 IEC 60529	
vibration resistance	10 gn (102000 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	

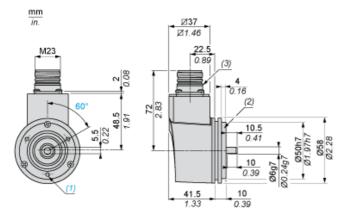
Offer Sustainability

Not Green Premium product	Not Green Premium product					
Compliant - since 0701 - Schneider Electric declaration of conformity	Compliant - since 0701 - Schneider Electric declaration of conformity					
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold					
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:					
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	eDi-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 more information go to www.p65warnings.ca.gov					

Contractual warranty

Warranty period	18 months	
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Dimensions

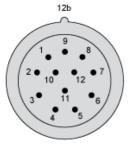


- (1) 3 M4 holes at 120° on 42 PCD, depth: 10 mm
- (2) Collar XCCRB1 mounted
- (3) Nitrile seal

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)	Reset to zero	R	+ V	R	Data -	Clk –	R

(1) Clockwise direction

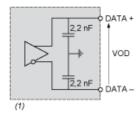
: Anticlockwise direction

R = Reserved (do not connect)

Technical Description

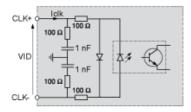


RS 422 Data Output



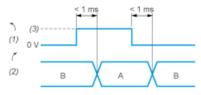
(1) Idata = 20 mA |VOD| > 2 V

Isolated Clock Input



VID maximum: 5 V Iclk maximum: 15 mA

DIRECTION Input



A: Anticlockwise

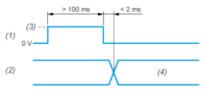
B: Clockwise

(1) DIRECTION input

(2) DIRECTION of counting

(3) V supply

Input Stage - Reset to Zero



(1) Reset input

(2) Position

(3) V supply

(4) Position=0 (Reset to zero)