# **XCC2514TS81SB**



#### Main

Range of product	OsiSense XCC
Encoder type	Single turn absolute encoder
Device short name	XCC
Product specific application	-
Diameter	2.28 in (58 mm)
Shaft diameter	0.55 in (14 mm)
Shaft type	Through 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

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Shaft tolerance	Н7	
Residual ripple	500 mV	
Maximum revolution speed	6000 rpm	
Shaft moment of inertia	0.01 lb.in² (22 g.cm²)	
Torque value	0.05 lbf.in (0.006 N.m)	_
Maximum load	2 daN axial 5 daN radial	
Output frequency	1001000 kHz	
Current consumption	0100 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	6803ZZ	
Product weight	0.95 lb(US) (0.43 kg)	

### **Environment**

ambient air temperature for operation -4194 °F (-2090 °C)  ambient air temperature for storage -22185 °F (-3085 °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	marking	CE					
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<b>V</b> 1	resistance to electromagnetic fields	9.14 V/yd (10 V/m) level 3 IEC 61000-4-3					
	resistance to fast transients	<b>5</b> 1					

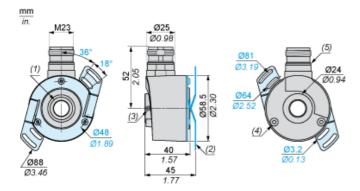
### Offer Sustainability

<b>,</b>	
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 Stat 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**

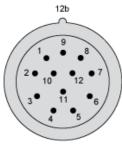


- (1) Through shaft, Ø 14 (H7)
- (2) Flexible mounting kit, 1 x XCCRF5N mounted
- (3) 2 HC M4 x 4 locking screws
- (4) Hole for M3 x 6 self-threading screw
- (5) Nitrile seal

### **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	R	R	+ V	R	Data -	Clk –	R
					(1)							

(1) : Clockwise direction, 5 to 0 V

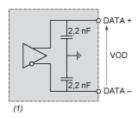
: Anticlockwise direction, 5 to + V

R = Reserved (do not connect)



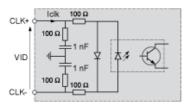
## **Technical Description**

### **RS 422 Data Output**



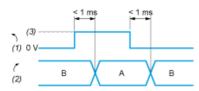
(1) Idata = 20 mA |VOD| > 2 V

#### **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