

Product availability: Non-Stock - Not normally stocked in distribution facility



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	0.39 in (10 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	11...30 V DC
Enclosure material	Steel

Complementary

Residual ripple	500 mV
Maximum revolution speed	6000 rpm
Shaft moment of inertia	0 lb.in ² (10 g.cm ²)
Torque value	0.04 lbf.in (0.004 N.m)
Maximum load	10 daN radial 5 daN axial
Output frequency	100...500 kHz
Current consumption	0...100 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	1.51 lb(US) (0.685 kg)

Environment

Marking	CE
Ambient air temperature for operation	-4...185 °F (-20...85 °C)
Ambient air temperature for storage	-4...185 °F (-20...85 °C)
IP degree of protection	IP65 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	003389119015653
Nbr. of units in pkg.	1
Package weight(Lbs)	1.76
Returnability	N
Country of origin	FR

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0826 - 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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mm
in.

M23

60°

(1)

(2)

Ø36f7
Ø1.4217

9.5
0.37

48.5
1.91

2
0.08

Ø37
Ø1.46

22.5
0.89

(3)

2
0.08

72
2.83

19
0.75

Ø10
Ø0.39

Ø31.75g9
Ø1.2459

Ø58.5
Ø2.303

Ø1.10

15
0.59

41.5
1.63

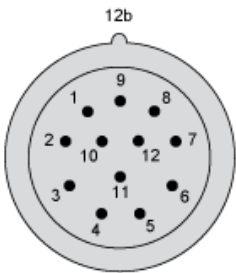
10
0.39

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Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



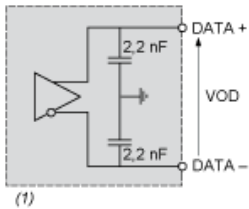
Pin number	1	2	3	4	5	6	7	8	9	10	11	12
Signal Supply	0 V	Data +	Clk +	R	Direction (1)	Reset to zero	R	+ V	R	Data -	Clk -	R

(1)  : Clockwise direction
 : Anticlockwise direction

R = Reserved (do not connect)

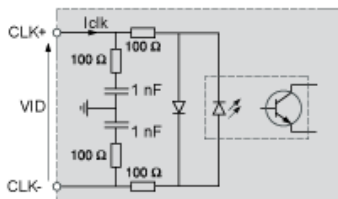
Technical Description

RS 422 Data Output



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

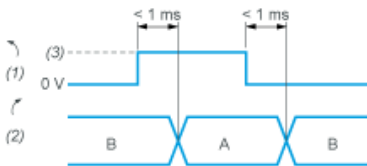
Isolated Clock Input



VID maximum: 5 V

Iclk maximum: 15 mA

DIRECTION Input



A : Anticlockwise

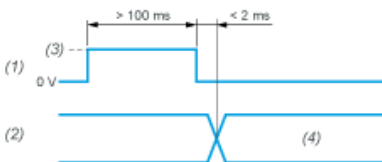
B : Clockwise

(1) DIRECTION input

(2) DIRECTION of counting

(3) V supply

Input Stage - Reset to Zero



(1) Reset input

(2) Position

(3) V supply

(4) Position=0 (Reset to zero)

Mouser Electronics

Authorized Distributor

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[XCC3510PS48SBN](#)