

XCC3510PS84SGN

absolute encoder Ø 58 multi turn - solid shaft
10 mm - SSI 25-bit Gray

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 turns/8192 points
Electrical connection	1 male connector M23 radial 12 pins
Output stage	Type SG
Type of output stage	SSI 25-bit gray
[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	Short-circuit protection Reverse polarity 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	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	003389119015677
Nbr. of units in pkg.	1
Package weight(Lbs)	1.51
Returnability	N
Country of origin	FR

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0701 - 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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Technical drawing of the 1000 Series Hydraulic Hose End Fitting, showing front and side views with dimensions in mm and inches.

Front View Dimensions:

- Top Port: M23
- Top Port Height: 2 (0.08)
- Body Height: 48.5 (1.91)
- Body Diameter: Ø36f7 (Ø1.4217)
- Body Thickness: 9.5 (0.37)
- Body Angle: 60°
- Mounting Hole Diameter: Ø10 (Ø0.39)
- Mounting Hole Spacing: 19 (0.75)
- Mounting Hole Position: 15 (0.59)
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- Mounting Hole Position: 15 (0.59)

Side View Dimensions:

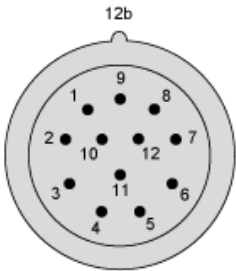
- Top Port Diameter: Ø37
- Top Port Height: 22.5 (0.89)
- Top Port Position: (3)
- Body Height: 72 (2.83)
- Body Diameter: Ø31.75g6 (Ø1.2456)
- Body Thickness: 41.5 (1.63)
- Body Angle: 60°
- Mounting Hole Diameter: Ø10 (Ø0.39)
- Mounting Hole Spacing: 19 (0.75)
- Mounting Hole Position: 15 (0.59)
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- Mounting Hole Spacing: 19 (0.75)
- Mounting Hole Position: 15 (0.59)
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Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



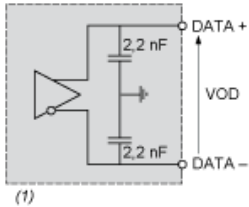
Pin number	1	2	3	4	5	6	7	8	9	10	11	12
Signal Supply	0 V	Data +	Clk +	R	Direction (1)	Reset to zero	R	+ V	R	Data -	Clk -	R

(1) : Clockwise direction
 : Anticlockwise direction

R = Reserved (do not connect)

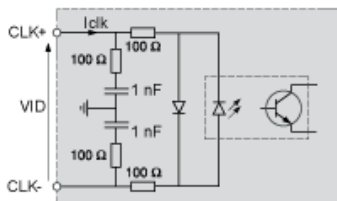
Technical Description

RS 422 Data Output



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

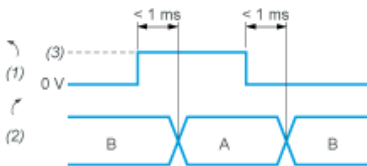
Isolated Clock Input



VID maximum: 5 V

Iclk maximum: 15 mA

DIRECTION Input



A : Anticlockwise

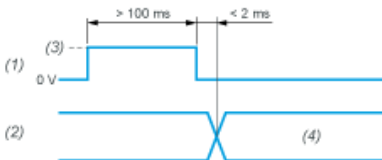
B : Clockwise

(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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