Product data sheet
Characteristics

XCC3510PS84SGN
absolute encoder Ø 58 multi turn - solid shaft 10 mm - SSI 25-bit Gray

Main

Range of product	OsiSense XCC
Encoder type	Multiturn absolute encoder
Encoder name	XCC
Product specific application	-
Diameter	58 mm
Shaft diameter	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	0...500 mV
Maximum revolution speed	6000 rpm
Shaft moment of inertia	10 g.cm²
Torque value	0.004 N.m
Maximum load	5 daN axial 10 daN radial
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	0.685 kg

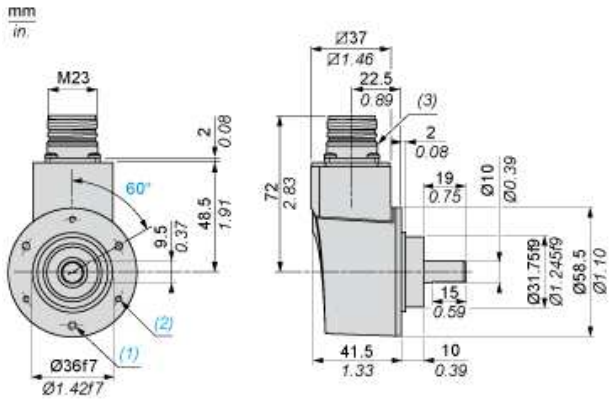
Environment

Marking	CE
Ambient air temperature for operation	-20...85 °C
Ambient air temperature for storage	-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	8 kV air discharge level 3 IEC 61000-4-2 4 kV contact discharge level 3 IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m level 3 IEC 61000-4-3
Resistance to fast transients	2 kV power ports level 3 IEC 61000-4-4 1 kV signal ports level 3 IEC 61000-4-4

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Dimensions

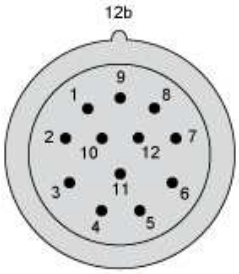


(1) 3 M4 holes at 120° on 48 PCD, depth: 8 mm
(2) 3 M3 holes at 120° on 48 PCD, depth: 8 mm
(3) Nitrile seal

Wiring Diagram

M23, 12-pin Connector, Anticlockwise Connections

Male Connector on Encoder



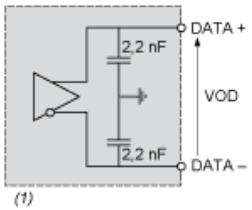
Pin number	1	2	3	4	5	6	7	8	9	10	11	12
Signal Supply	0 V	Data +	Clk +	R	Direction (1)	Reset to zero	R	+ V	R	Data -	Clk –	R

(1) : Clockwise direction
: Anticlockwise direction

R = Reserved (do not connect)

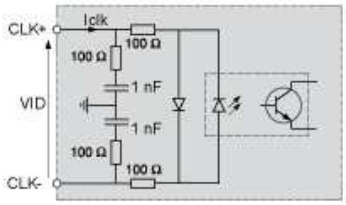
Technical Description

RS 422 Data Output



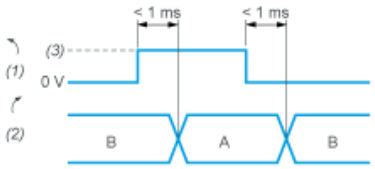
(1) Idata = 20 mA |VOD| > 2 V

Isolated Clock Input



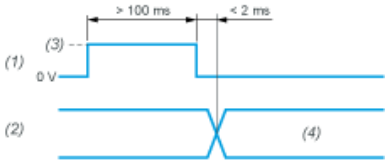
VID maximum: 5 V
Iclk maximum: 15 mA

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)