# **XCC1510PSM11Y**

incremental encoder  $\emptyset$  58 - solid shaft 10 mm - 1024..16384 points - push-pull



### Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	58 mm
Complementary function	Parameterable
Shaft diameter	10 mm
Shaft type	Solid shaft
Resolution	102416384 points
Output stage	Type Y
Type of output stage	Driver push-pull
Electrical connection	1 male connector M23 radial 12 pins
[Us] rated supply voltage	530 V DC
Enclosure material	Zamak

## Complementary

Residual ripple	500 mV	
Maximum revolution speed	9000 rpm	
Shaft moment of inertia	10 g.cm²	
Torque value	0.004 N.m	-
Maximum load	10 daN radial 5 daN axial	
Output frequency	300 kHz	
Number of channels	3	_
Current consumption	075 mA (no-load)	
Protection type	Reverse polarity protection Short-circuit protection	
Maximum output current	40 mA	
Output level	Low level: 0.5 V maximum (20 mA) High level: V supply - 2.5 V minimum (20 mA)	
Surge withstand	1 kV, level 2 conforming to IEC 61000-4-5	
Base material	Aluminium	
Shaft material	Stainless steel	
Type of ball bearings	6000ZZ1	
Product weight	0.465 kg	

## **Environment**

marking	CE	
ambient air temperature for operation	-30100 °C	
ambient air temperature for storage	-3085 °C	
IP degree of protection	IP65 conforming to IEC 60529	
vibration resistance	10 gn (f = 552000 Hz) conforming to IEC 60068-2-6	
shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27	
resistance to electrostatic discharge	8 kV (air discharge) level 3 conforming to IEC 61000-4-2 4 kV (contact discharge) level 3 conforming to IEC 61000-4-2	
resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3	
resistance to fast transients	1 kV (signal ports) level 3 conforming to IEC 61000-4-4 2 kV (power ports) level 3 conforming to IEC 61000-4-4	

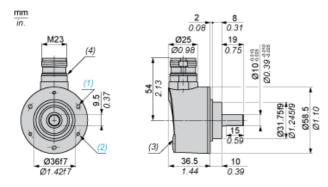
## Offer Sustainability

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

### Contractual warranty

Warranty period 18 months
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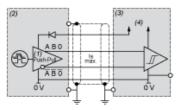
### **Dimensions**



- (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) Blanking plug
- (4) Nitrile seal

# **Wiring Diagram**

### Type Y Output Stage

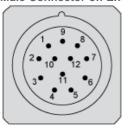


- (1) RS 422 compatible on 5 V supply
- (2) Encoder
- (3) Processing
- (4) Supply 5 V/30 V

# **Wiring Diagram**

#### M23, 12-pin Connector Connections

#### **Male Connector on Encoder**



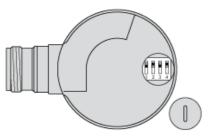
Pin number	1	2	3	4	5	6	7	8	9	10	11	12
Signal Supply	A-	+V	0	0-	В	B-	R	А	R	0 V	0 V	+V

R = reserved, do not connect



# **Wiring Diagram**

## Resolutions for Parameterable Ø 58 mm Encoders



Interpolati	ion factor Basic resolution Position of dip sv					dip swit	ches			
Counting	Speed	256	360	500	1024	5000	1	2	3	4
x1	x1	256	360	500	1024	5000	Off	On	Off	On
x2	x2	512	720	1000	2048	10,000	On	On	Off	On
х3	хЗ	768	1080	1500	3072	15,000	On	Off	Off	On
x4	x4	1024	1440	2000	4096	20,000	Off	On	On	On
x5	-	1280	1800	2500	5120	25,000	On	On	On	On
x8	-	2048	2880	4000	8192	40,000	On	Off	On	On
x10	-	2560	3600	5000	10,240	50,000	Off	On	On	Off
x12	-	3072	4320	6000	12,288	60,000	On	On	On	Off
x16	-	4096	5760	8000	16,384	80,000	On	Off	On	Off