



# SERIE XS1 ANA

## DRAW WIRE ANALOG ENCODER

- Analog output
- Resolution up to 16 bits
- Measuring range configurable up to 1250 mm.
- Protection class IP51 according to DIN EN 60529
- Limit Switch Function
- Connection by cable (other cable length available) or industrial connector M12



Linear measurement system



Absolute Encoder



Analog output



Vibration and shock resistant



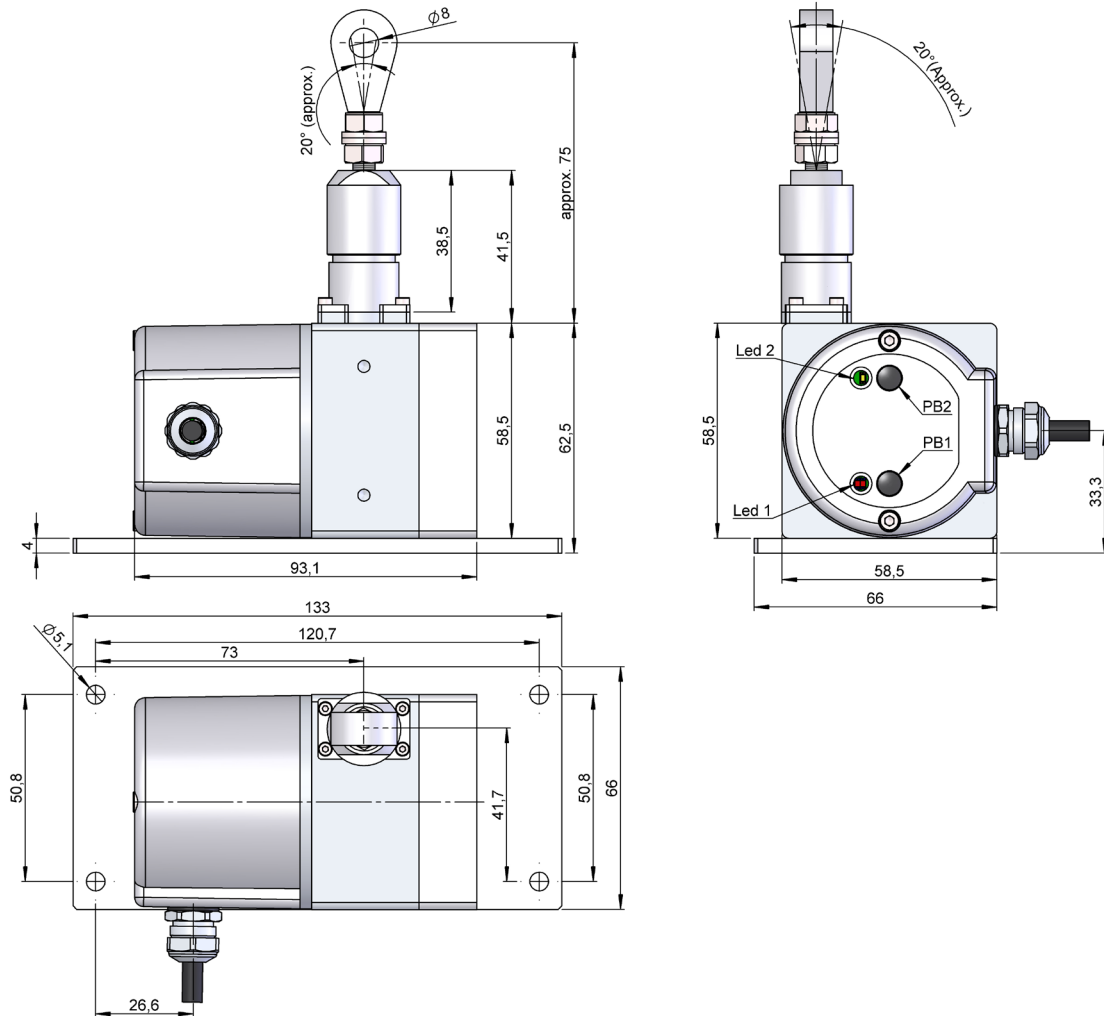
Limit Switch



Express Delivery



Compact



# SERIE XS1 ANA

## DRAW WIRE ANALOG ENCODER

### REFERENCE

Reference example: XS1-ANA-15-16CBL

Serie	Interface	Connection	Interface / Supply Voltage	Resolution	Measuring range	Special customer
XS1 -	ANA -	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	ANA. Analog	1. Radial cable 2. Radial M12 5p	5. 0...20 mA, 7-30V (*) 6. 4...20 mA, 7-30V 7. 0..10V, 12-30V 8. 0..5V, 7-30V	12. 12 bits 16. 16 bits	CBO. By buttons CBL. By buttons + limit switch CCO. By cable CCL. By cable + limit switch  CONFIGURABLE (1..1250mm)	

Order your reference Step file 3D

[info@encoderhohner.com](mailto:info@encoderhohner.com)

service available in 24 h

\* Only available for measuring range options CBO and CCO

### MECHANICAL SPECIFICATIONS

Materials	Cover: Aluminium Housing: Aluminium Shaft: Stainless steel
Travel	125 mm +/- 0,05 mm / per turn
Cable (*)	Ø 0,61 stainless steel AISI316
Measurement range, up to (mm)	1250 mm.
Maximum cable extension (mm)	1260 mm
Minimum cable static tension	3 N
Maximum cable static tension	9 N
Maximum extension acceleration	35 m/s <sup>2</sup>
Maximum recovery acceleration	10 m/s <sup>2</sup>
Maximum speed	1 m/s
Protection against dust and splashes according to DIN EN 60529	IP51
Operating temperature range	-40°C to +85°C
Weight	0,9 kg.
Vibration according to DIN EN 60068-2-6	100 m/s <sup>2</sup> (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s <sup>2</sup> (6ms)

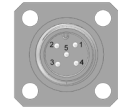
# SERIE XS1 ANA

## DRAW WIRE ANALOG ENCODER

### ELECTRICAL SPECIFICATIONS

Interface	Analog
Electronic output	0..20mA , 4..20mA, 0..5V, 0..10V
Power supply (VCC)	7-30V, 12-30V
Consumption	≤ 100 mA
Resolution	12 or 16 bits
Range	up to 1250 mm
Configurable parameters	Range, Direction and Preset
Frequency	100 kHz
Short circuit protection	Yes
Protection polarity inversion	Yes

### CONNECTION



	Cable 5x0,14 95.0008051	Connector M12 5p
GND	Yellow	1
VCC	White	2
SET1	Brown	3
SET2	Green	4
I <sub>out</sub> / V <sub>out</sub>	Grey	5

### MEASURING RANGE CONFIGURATION

#### CONFIGURABLE BY BUTTONS (OPTIONS CBO AND CBL)

1. Press PB1 and PB2 together for 15 sec. to enter programming mode.
2. Pull the cable to the initial measurement position.
3. Press PB1 or PB2 for 2 seconds, then the green led lights solidly.
4. Pull the cable to the final measurement position.
5. Press the other PB not configured for 2 seconds, then the green led lights solidly.

#### CONFIGURABLE BY CABLE (OPTIONS CCO AND CCL)

1. Pull the cable to the initial measurement position.
2. Connect SET1 or SET2 with +V for at least one second.
3. Pull the cable to the final measurement position.
4. Connect the other SET not configured with +V for at least one second.

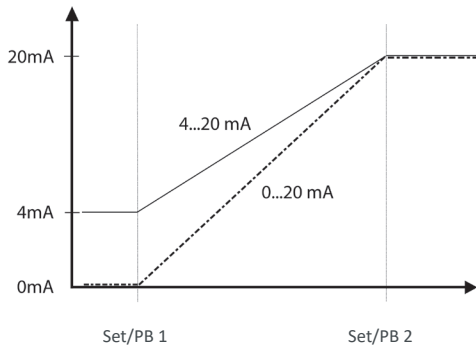
If the process is not set up correctly, the encoder gives an electronic output of 12 mA in Interface / Supply Voltage options 5 (0..20 mA, 7-30V) and 6 (4..20 mA, 7-30V), or half of maximum voltage in options 7 (0..10 V, 12-30V) and 8 (0..5 V, 7-30V).

# SERIE XS1 ANA

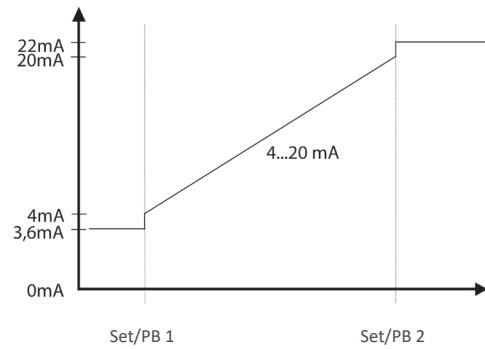
## DRAW WIRE ANALOG ENCODER

### OUTPUT SIGNALS

Configurable version mA without Limit Switch function

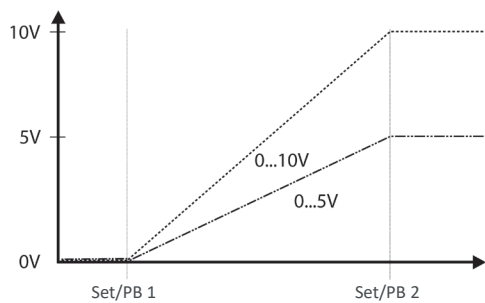


Configurable version mA with Limit Switch function

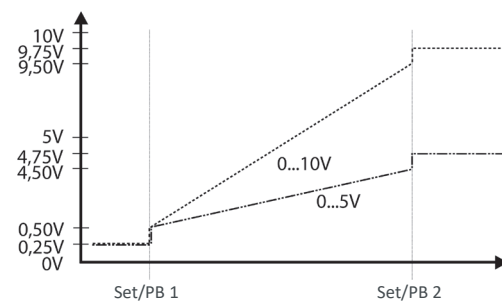


Interface	4...20mA
Low	3.6mA
High	22mA

Configurable version V without Limit Switch function



Configurable version V with Limit Switch function



Interface	0...5V	0...10V
Low	0.25V	0.25V
High	4.75V	9.75V

# SERIE XS1 ANA

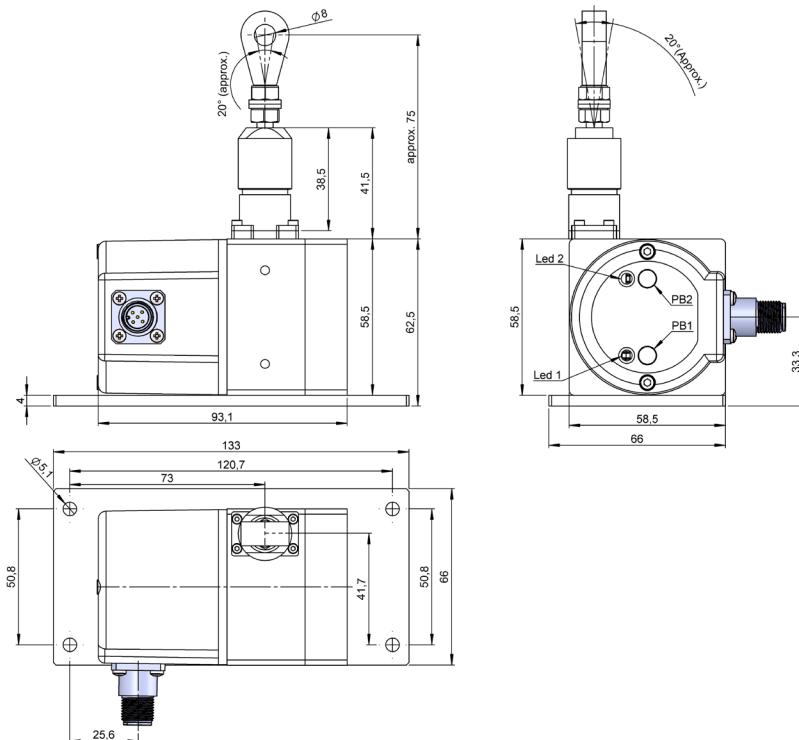
## DRAW WIRE ANALOG ENCODER

### CONNECTION DIMENSIONS

Female connector not included

#### Connection 2

Radial  
M12 5p  
male panel  
counter clockwise



#### Female connector

95.0007265

