MA431 - SERIES



HEAVY DUTY ABSOLUTE ENCODER Ø 115 MM, SINGLE OR MULTITURN

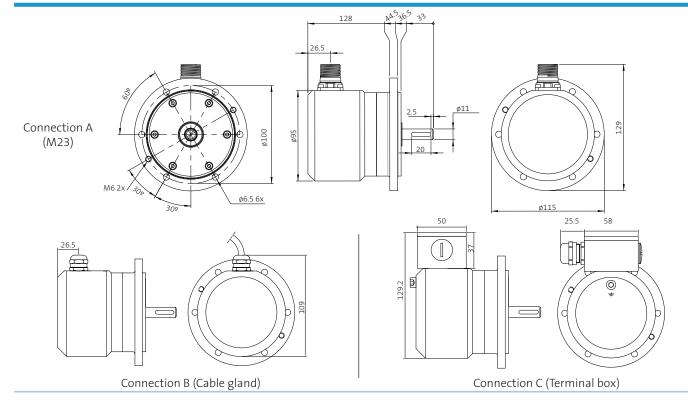
Encoder with EURO-flange B10 in stainless steel AISI 316

- CAN Open, DS406
- Offshore and salt water firm
- Ø 115 mm, B10 stainless steel AISI 316
- \emptyset 11 mm shaft with key way, stainless steel 1.4057
- Enlarged sturdy bearings
- Short circuit and reversed polarity proof
- Dust & splash proof IP67
- High resolution up to 25 bit



Flexible and durable encoder for demanding applications





FIFCTRICAL	SPECIFICATIONS
LLLCINICAL	JI ECII ICAIIOI43

Supply Voltage	10-30 Vdc (EN50178)
Interface	CANOpen (DS-406)

Resolution Singleturn 13 bit

Revolutions Multiturn 12 bit

Multiturn Technology Mechanical Gear

Singleturn Accuracy ±½ LSB (up to 12 bit)

Interface Cycle Time > 1 ms

Power Consumption Max. 2,5 W Start up Time < 250 ms

MECHANICAL SPECIFICATIONS

Housing	Stainless steel AISI 316
Shaft	Stainless steel 1.4057

Encapsulation IP67

Operating temperature -30°C to +70°C

Bearings Permanently greased

Bearing load at 1 000 rpm Radial <350 N Axial <250 N

Max rpm 3 000 rpm

Vibration 10g 20-2000 Hz (EN60068-2-6) Shock 100g at 6 ms (EN60068-2-27)

Weight 3,6 kg

PROGRAMMING FUNCTIONS

Resolution, Preset, 2 limit switches, 8 CAMS, Baud rate, CAN-Identifier, Bootloader, Transmission modes: polled, cyclic, sync

CONNECTION	Α	В	С
Signal	Pin 1 2 3	Color	Pin
CAN Ground		Green	2
CAN High		Yellow	3
CAN Low		Pink	4
CAN Ground	NA	NA	9
CAN High	NA	NA	8
CAN Low	NA	NA	7
+ V	11	White	1
0 V	12	Brown	10

ORDERING KEY

Model - Material - Connection - Interface - Resolution

Model	MA431		
Material	S	Stainless Steel	
Connection	A B C	16-pin M23 Male Connector CW Radial Cable 5 meter length Terminal box, for ø6-ø12mm cable	
Interface	C	CAN Open	
Resolution Multiturn Singleturn	YY ZZ	YY bit (00 indicates singleturn) ZZ bit	
Sample ordering key			

Sample ordering key MA431-SA-C0012 MA431-SB-C1213

CANOpen, Singleturn CANOpen, Multiturn, Radial cable 5m

