



Delivered without miniature WSB markers

This module is an interface for any incremental encoder with a RS-422 connection.

A counter with quadrature decoder as well as a latch for the zero impulse can be read or enabled by the control. The control can set the counter or transmit the counter value to the Latch. As an alternative this can also be done using input "C" or "Latch".

The frequency data is automatically acquired and can also be transmitted to the control.

A counter lock-out is possible using input G. Input "Ref" can be used to activate the initial point "C" function.

The outputs N1 and N2 indicate whether the counter value is within a defined range of values. The range can be adjusted.

The module must be powered using an external 24VDC power supply. It is then possible to supply the encoder with 24VDC, or alternatively with 5VDC derived internally from the terminations (Ve/V0).

The shield (screen) is directly connected to the carrier rail.

Description	Item No.	Pack. Unit
Incremental Encoder Interface	750-637	2 ¹⁾
Incremental Encoder Interface 24 V/32 Bit differential	750-637/000-001	1
Incremental Encoder Interface 24 V/32 Bit single ended	750-637/000-002	1
Incremental Encoder Interface 24 V/32 Bit single ended/cam outputs	750-637/000-004	1
¹⁾ Also available individually		
Accessories	Item No.	Pack. Unit
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 304 ... 305	
Approvals		
750 Series	(Approvals for product variations upon request)	
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4 BR-Ex nA II T4	
Shipbuilding	see "Approvals Overview" in section 1	

Technical Data	
Sensor connection	A, \bar{A} , B, \bar{B} , C, \bar{C}
Current consumption (internal)	110 mA
Counter	32 bits binary
Max. operating frequency	250 kHz
Quadrature decoder	4-fold report
Zero impulse latch	32 bits
Commands	read, set, enable
Voltage supply	24 V DC (-15 % ... +20 %)
Current consumption (typ.)	35 mA without load
Operating voltage of sensor	5 V DC
Sensor max. output current	300 mA
Internal bit width	1 x 32 bits data 1 x 8 bits control/status
Digital outputs (N1, N2)	
Output voltage	24 V DC
Output current (max.)	0.5 A short-circuit protected
Digital inputs (Latch, Gate, Ref)	
Signal voltage (0)	-3 V ... +5 V DC
Signal voltage (1)	15 V ... 30 V DC
Input current (typ.)	Latch 5 mA, Gate 7 mA, Ref. 7 mA
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	100 g
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2007)
EMC marine applications - Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications - Emission of interference	acc. to Germanischer Lloyd (2003)