



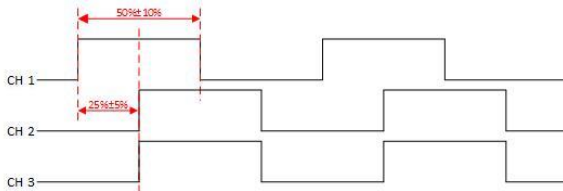
Part no.: 98.3113

- 01-09-UCCW, 3x227, 5-24VDC, Totempole
- Optical shaft encoder
- ATEX, IECEx and MID certificates
- Suitable for building into mechanical registers
- Compact and rugged design

Electrical specifications

Code:	Incremental - quadrature
Resolution:	3x227ppr (pulses per revolution)
Supply voltage:	5-24VDC**
Supply current:	35mA
Output stage:	Totempole
Output current:	30mA/channel max load**
Output frequency:	rpm/60xppr ≤1000Hz **
Output format:	Squarewave 50% dutycycle ±10%
Phase sense:	Ch1 - Ch2: 25% ±5% - Ch2-Ch3: 0%±5% Ch2 - Ch3: 0-5%. Direction is CCW when facing the visible part of the coupling
Electrical protection:	Reverse polarity protected
Noise immunity:	Tested for ElectroMagnetic Compatibility (EMC) to EN61000-6-4 and EN61000-6-2

**= It is not recommended to combine max values for all parameters



Cable

Cable:	5x0.25mm ²
Cable length:	0.28m cable with 5 core + shield
Colour code:	VCC: Green GND: Brown Channel 1: White Channel 2: Yellow Channel 3: Grey
Shield:	Shield connected to housing

Certificates

ATEX:	II 2 G Ex d IIB T6 Gb TÜV 09 ATEX 555513 X
IECEX:	Ex d IIB T6 Gb IECEX TUN 09.0017X
MID part certificate:	NMI TC8656 migrating to CMI ZR 141/17-0158 during Q42017
W&M	PTB no. 5.552 - 92.14

Mechanical specifications

Material:	Die cast, seawater resistant aluminum alloy
Size:	81x68.5x24mm (excl. mechanical coupling)
Weight:	~200g (excl. cable)
Bearing:	Self-lubricating sintered bronze
Speed:	1000rpm max for ATEX/IECEX
Mechanical coupling:	62.0245, see separate drawing. The coupling is factory installed before shipping
Clutch:	N/A
Mounting options:	4pcs. M4 screws from lower side or 2pcs. screws from top side.
Labels:	59.2433, 59.2025, 59.2285
Sealing:	1 tin seal in cover
Other:	

Environmental specifications

Operating temperature:	-30°C to +70°C
Approved temperature:	-30°C to +60°C

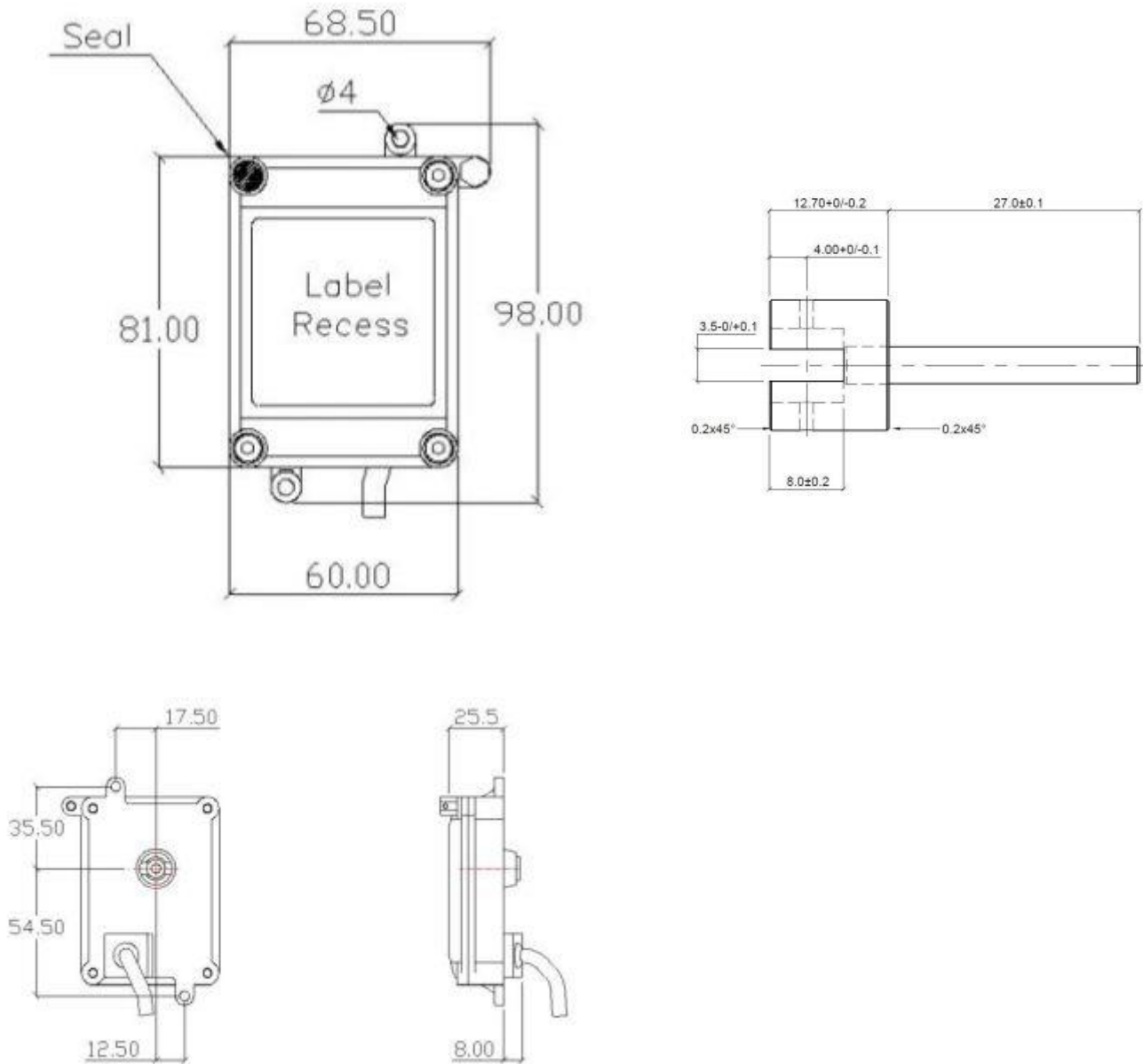
Software features

Suppression:	
Alarm:	

Other

Accessories:	
Totalizer:	
Gearbox:	
Flexible cable:	

Mechanical drawing



Revision history

Revision 1: Initial release

Revision 3: 25.05.2007 (WM): Modified wiring route

Revision 4: 08.05.2008 (WM): Modified shaft coupling added.

Revision 5: 08.05.2008 (WM): AH part no changed to BEMZ33413

Revision 6: 07.01.2009 (WM): Added red sealing lacquer to screws

Revision 7: 17.01.2014 (AMC): Updated approvals and labels

Revision 8: 23.06.2014 (AMC): Removed kit parts

Revision 9: 02.10.2014 (AMC): Added new label

Revision 10: 07.10.2014 (AMC): Coupling text added