

Part no.: 98.3114



- 01-09-UCCW, 2x100, 5-25VDC, Totempole
- Optical shaft encoder
- ATEX, IECEx and MID certificates
- Suitable for building into mechanical registers
- Compact and rugged design

## Electrical specifications

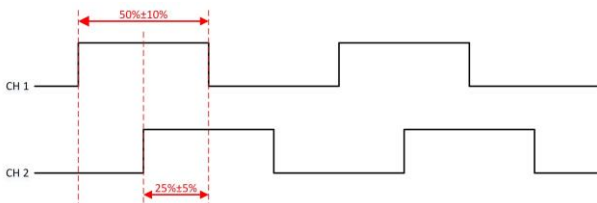
<b>Code:</b>	Incremental - quadrature
<b>Resolution:</b>	2x100ppr (pulses per revolution)
<b>Supply voltage:</b>	5-25VDC**
<b>Supply current:</b>	20mA - typically 17mA
<b>Output stage:</b>	Totempole
<b>Output current:</b>	30mA/channel max load**
<b>Output frequency:</b>	rpm/60xppr ≤1000Hz **
<b>Output format:</b>	Squarewave 50% dutycycle ±10%
<b>Phase sense:</b>	Ch1 - Ch2: 25% ±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

<b>Cable:</b>	4x0.25mm armeret
<b>Cable length:</b>	3m cable with 4 core + shield
<b>Colour code:</b>	VCC: Green GND: Brown Channel 1: White Channel 2: Yellow

**Shield:** Shield connected to housing

## Certificates

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

## Mechanical specifications

<b>Material:</b>	Die cast, seawater resistant aluminum alloy
<b>Size:</b>	81x68.5x24mm (excl. mechanical coupling)
<b>Weight:</b>	~200g (excl. cable)
<b>Bearing:</b>	Self-lubricating sintered bronze
<b>Speed:</b>	1000rpm max for ATEX/IECEX
<b>Mechanical coupling:</b>	62.0245, see separate drawing. The coupling is factory installed before shipping
<b>Clutch:</b>	
<b>Mounting options:</b>	4pcs. M4 screws from lower side or 2pcs. screws from top side.
<b>Labels:</b>	59.2432, 59.2010, 59.2287
<b>Sealing:</b>	1 tin seal in cover
<b>Other:</b>	99.5022

## Environmental specifications

<b>Operating temperature:</b>	-30°C to +70°C
<b>Approved temperature:</b>	-30°C to +60°C

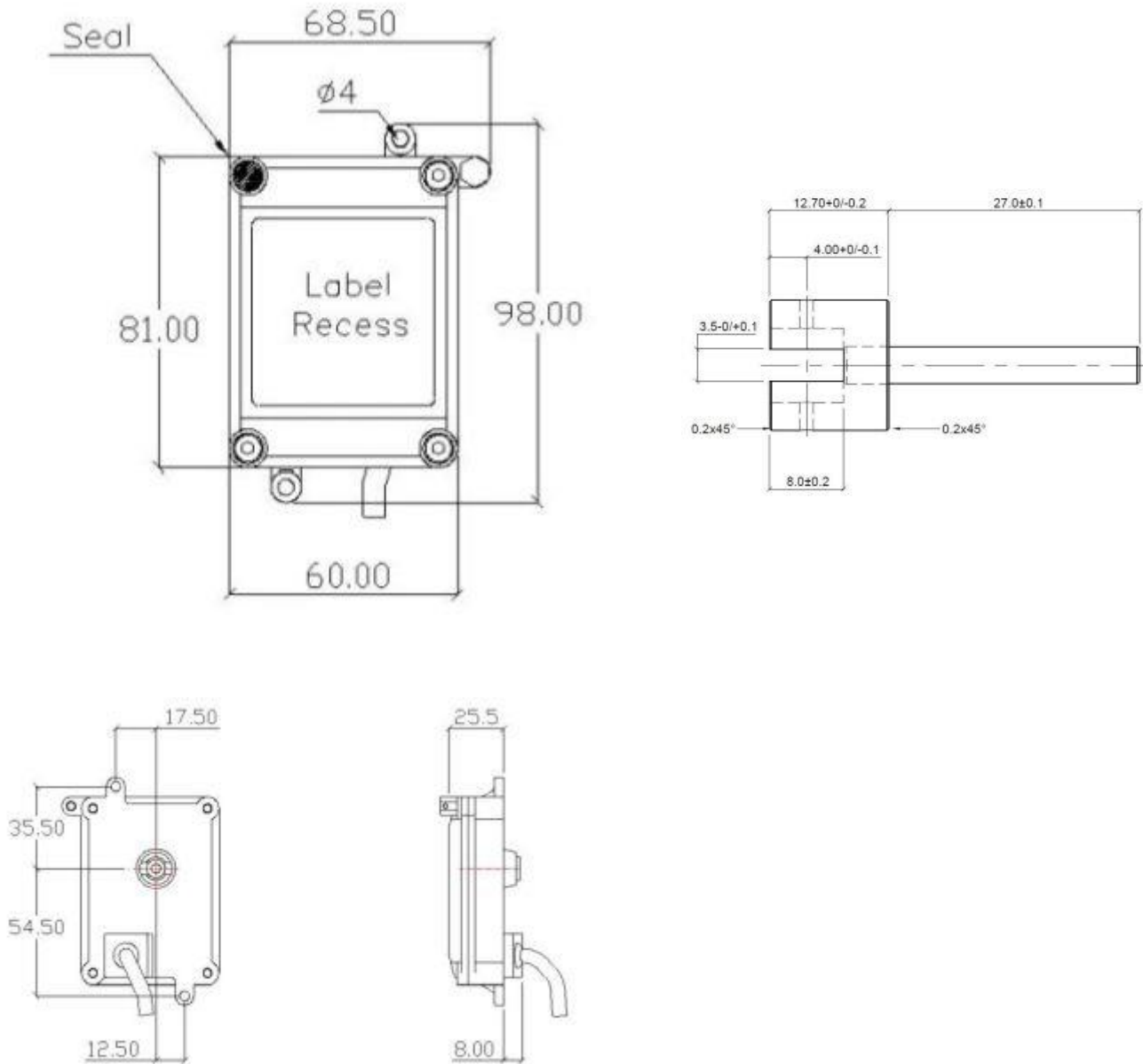
## Software features

<b>Suppression:</b>	
<b>Alarm:</b>	

## Other

<b>Accessories:</b>	
<b>Totalizer:</b>	
<b>Gearbox:</b>	
<b>Flexible cable:</b>	

## Mechanical drawing



## Revision history

Revision 2: 14.05.2008 modified shaft coupling added. AH part no. changed to BEMZ33414

Revision 3: 07.01.2009 Added red sealing lacquer to screws

Revision 4: 27.10.2014 Updated approvals and labels