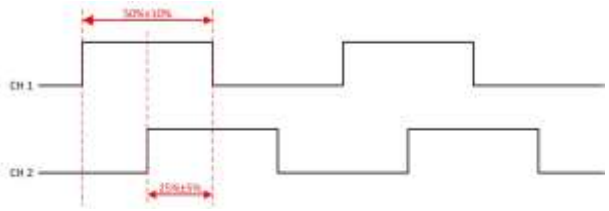
Part no.: 98.3040

- 01-09-UCCW, 2x50, 5-24VDC, NPN
- Optical shaft encoder
- ATEX, IECEx and MID certificates
- Suitable for building into mechanical registers
- Compact and rugged design

Electrical specifications

Code:	Incremental - quadrature
Resolution:	2x50ppr (pulses per revolution)
Supply voltage:	5-24VDC**
Supply current:	Max.40mA/Typ.25mA
Output stage:	NPN Open collector (1K pull-up to +VDC before diode)
Output current:	30mA/channel max load**
Output frequency:	rpm/60×ppr ≤1000Hz **
Output format:	Squarewave 50% dutycycle
Phase sense:	Ch1 - Ch2: 25%. 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:	4x0.25mm
Cable length:	2m cable with 4 core + shield
Color code:	VCC: Green GND: Brown Channel 1: White Channel 2: Yellow
Shield:	Shield connected to housing

Certificates

ATEX:	II 2 G Ex db llB T6 Gb TÜV 09 ATEX 555513 X
IECEx:	Ex db 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:	62.0145, see seperate drawing. The coupling is factory installed before shipping
Clutch:	
Mounting options:	4pcs. M4 screws from lower side or 2pcs. screws from top side.
Labels:	59.2434, 59.2004
Sealing:	1 tin seal in cover
Other:	Suitable for cover 99.5007

Environmental specifications

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

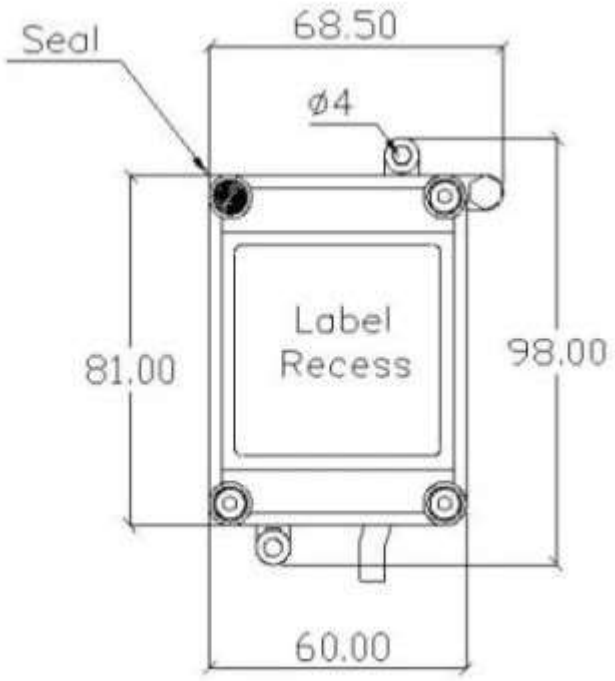
Software features

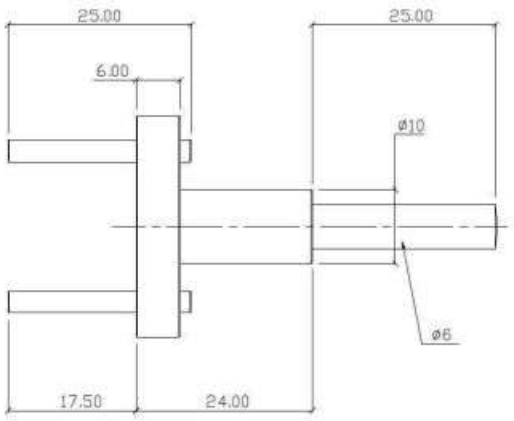
Suppression:	
Alarm:	

Other

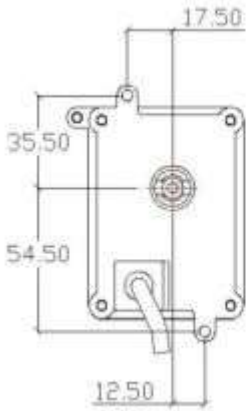
Accessories:	
Totalizer:	
Gearbox:	
Flexible cable:	

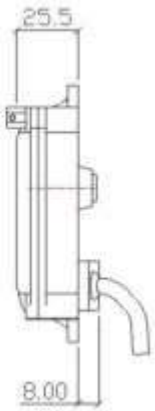
Mechanical drawing





Coupling 62.0145





Revision history

Revision 2: 11.11.2021 (amb) initial release