



Part no.: 98.3109

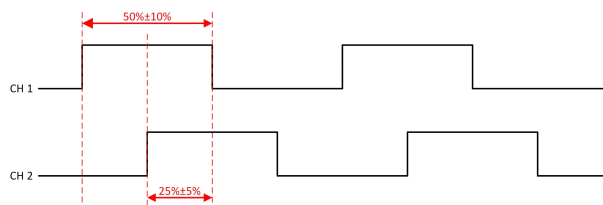
- 01-09-UCCW, 2x100, 5-24VDC, NPN
- Optical shaft encoder
- ATEX, IECEX, UKEX and MID certificates
- Suitable for building into mechanical registers
- Compact and rugged design



Electrical specifications

Code:	Incremental - quadrature
Resolution:	2x100ppr (pulses per revolution)
Supply voltage:	5-24VDC**
Supply current:	Max.40mA/Typ.25mA
Output stage:	NPN Open collector
Output current:	30mA/channel max load**
Output frequency:	rpm/60xppr ≤1000Hz **
Output format:	Squarewave 50% dutycycle ±10%
Phase shift:	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

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 IIB T6 Gb ITS-I22ATEX35219X
IECEX:	Ex db IIB T6 Gb IECEX ITS 22.0029X
UKEX:	Ex db IIB T6 Gb ITS22UKEX0669X
MID part certificate:	CMI ZR 141/17-0158
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.
Mechanical coupling:	62.0071, see separate drawing. The coupling is factory installed before shipping
Clutch:	
Mounting options:	4pcs. M4 screws from lower side or 2pcs. screws from top side.
Sealing:	1 tin seal in cover
Other:	99.5002

Environmental specifications

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

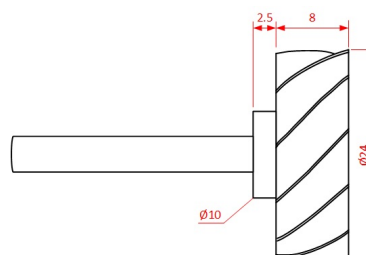
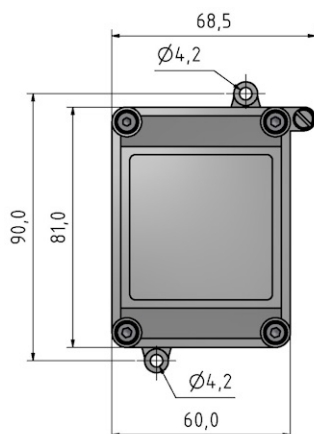
Software features

Suppression:
Alarm:

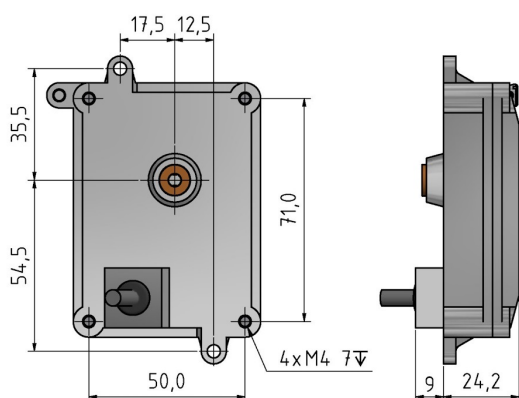
Other

Accessories:
Totalizer:
Gearbox:
Flexible cable:

Mechanical drawing



Coupling 62.0071



Revision history

Revision 1: 17.03.2005 Initial release

Revision 2: 31.03.2014 Updated approvals and labels. Removed customers part number

Revision 3: 06.01.2020 Label updated

Revision 4: 15.08.2022 Changed MID approval

Revision 5: 08.07.2024 Approvals updated