L20-70

Water Ingress Detectors

Honeywell

The IMO, IACS and SOLAS regulations mandate the use of water ingress detector for early detection of leakages in cargo holds and other specified areas of the ship. The L20-70 series water ingress detectors are specifically designed for liquid ingress detection within dry cargos. The polyester housing is designed for installation in areas protected against adverse weather conditions. The simplified design operates without any on-site calibration since L20-70 is not influenced by the surrounding cargo (e.g. coal, cement or any powdery substance).



The L20-70 liquid ingress detectors operate using mechanical wave propagation inside stainless steel probe. The design is fully static, without vibration or moving parts. A "self-monitoring" function ensures reliability for using sensors in safety systems. The principle used is positive safety whereby any failure of probe, electronics or transducer triggers alarm, eliminating periodical cleaning or manual testing. The compact and small sensor diameter allows installations through smaller holes in tanks walls and roofs. L20-70 operates effectively even if the cargo absorbs water and forms a paste.

TECHNICAL SPECIFICATIONS

Operating temperature	- 25°C to + 60°C
Product temperature	upto +70°C
Power Supply	18 to 28V DC (24V DC nominal)
Accuracy	+/- 2mm
Output Options	20mA (Outside Liquid)/7mA (Detection of Liquid) NO/NC Relay Contact
Protection Class	IP66 - Connection Box IP68 - Sensor upto 100m depth
Materials	Probe: Stainless Steel SS316L Connection Box: Polyester
Weight	0.9 Kg.

SPECIAL FEATURES

Operational Features	✓ Insensitive to: ✓ Vibrations ✓ Shocks ✓ Electrical disturbances ✓ Solid cargo products
Safety Features	✓ Fail-safe operation (Current output models only) ✓ No moving parts
Mounting	✓ Horizontal OR Vertical

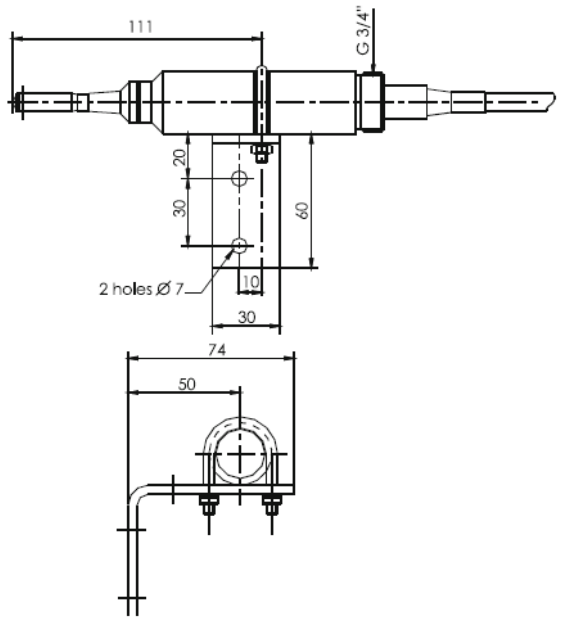
APPROVALS

Intrinsic Safety Approval	ATEX, IECEx. II 1 G D Ex ia IIC or IIB T6 or T5 or T4 Ga Ex ia IIIC T80°C or T95°C or T130°C Da

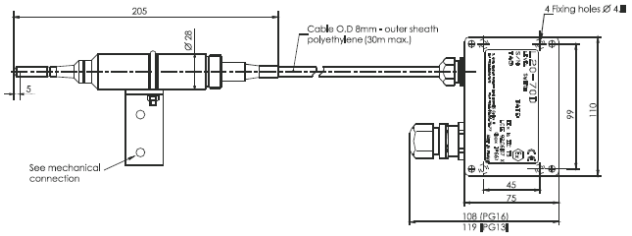
DOCUMENTATION

Technical manual	NT406
Maintenance manual	NT406

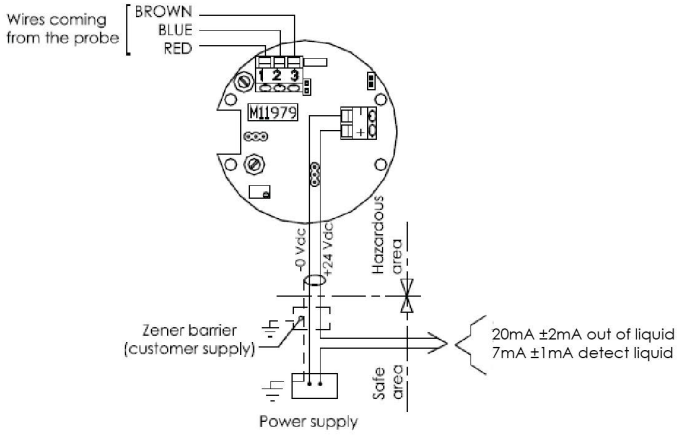
MECHANICAL CONNECTIONS



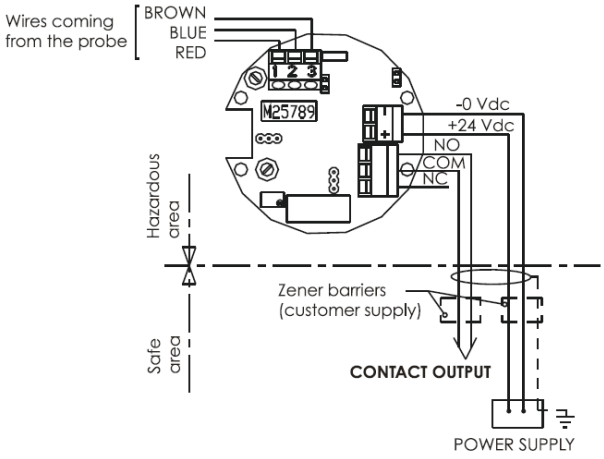
MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS - CURRENT



ELECTRICAL CONNECTIONS - RELAY



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This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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