

DESCRIPTION

Echotel 919 ultrasonic level controls are compact integral units which utilize pulsed wave technology to detect high or low level alarm in a broad range of viscous to light liquids.

The 919 has protected electronics, and its high frequency signal prevents the unit from picking up noise from surrounding equipment such as engines, pumps etc...

The Echotel 919 is available in two versions:

- all voltage unit (must be used in series with a load)
- unit with integrated relay (3A SPDT @ 24 V DC).

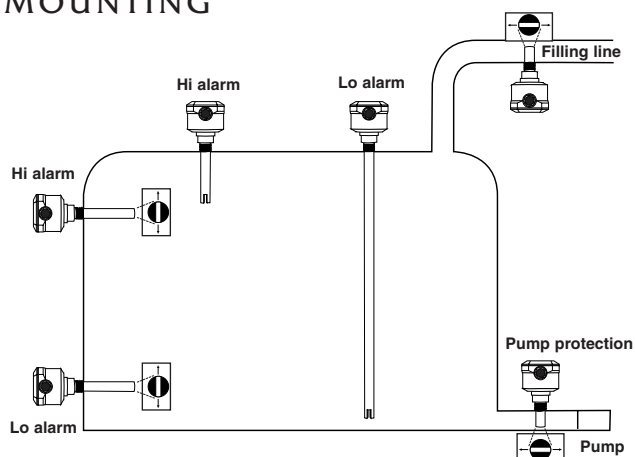
FEATURES

- No calibration required.
- 330° rotatable housing.
- Compact and easy to install design.
- High or low level detection is field selectable via DIP switch.
- High temperature /high pressure rating:
max. +150°C @ 103 bar (300°F @ 1500 psi).
- IP67, watertight, corrosion resistant Valox® enclosure (IP54 with incl. cable gland).
- Sanitary finish: - 0,5 µm (Ra 20) surface finish
- seamless welded transducer gap
- horseshoe shaped transducer gap.

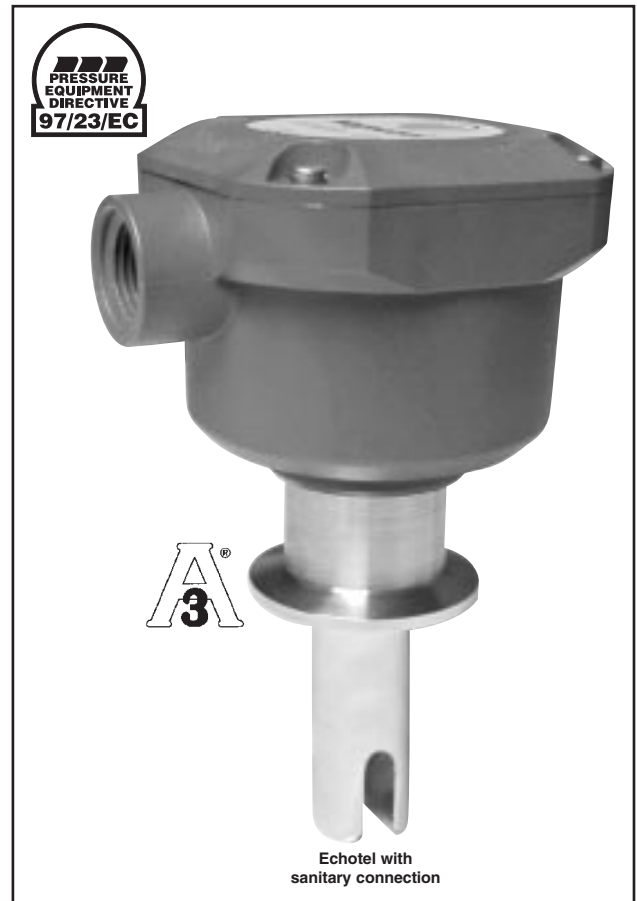
APPLICATIONS

- LIQUIDS: Any liquids with a viscosity < 10.000 cP.
- VESSELS: Any mounting position, ideally for filters.
- PROCESS CONDITIONS: Unaffected by
 - shifting dielectric, density, or PH
 - presence of foam and visible vapors
 - fast drain/fill rates
 - vacuum conditions.

MOUNTING



With relay or all voltage



AGENCY APPROVALS

Agency	Approval
DIBt/TÜV	WHG §19 [®]

[®] Except models with 3A-triclamp coupling.

PERFORMANCE SPECIFICATIONS

Description	Specification
Response time	0,5 s typical
Repeatability	± 2 mm (0.078")
Ambient Temperature	-40 °C up to +70 °C (-40 °F to +160 °F)
Humidity	0-99 %, non condensing
Electromagnetic Compatibility	Meets CE requirements (EN-61000-6-4, EN 61000-6-2) and in compliance with Directive 89/336/EEC

PHYSICAL/FUNCTIONAL SPECIFICATIONS

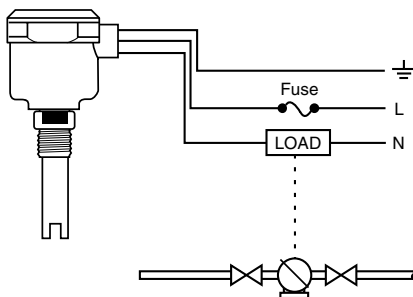
Description	Specification
Input voltage	All voltage (919-C) From 24 ... 240 V AC/DC (± 10 % load always required)
	Relay (919-M) 24 V DC
Power consumption	0,1 VA maximum
Signal output	All voltage (919-C) max 500 mA (continuous) / min 7.5 mA (continuous) load
	Relay (919-M) SPDT: 3 A @ 24 V DC / 1 A @ 125/250 V AC switch rating
Housing material	Valox® – can be cleaned with chlorine bleach
Approvals	DIBt/TÜV WHG § 19, Overfill prevention
Net Weight	510 gr (standard unit with 50 mm SST transducer)

TRANSDUCERS SPECIFICATIONS

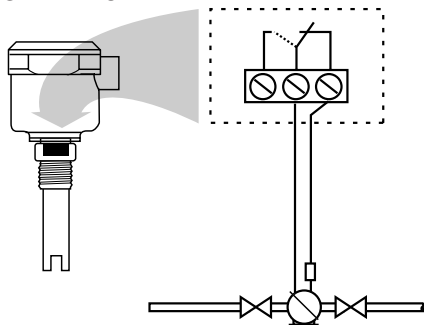
Description	Specification
Materials transducer	316/316L SST (1.4401/1.4404) – industrial finish 316/316L (1.4401/1.4404) – sanitary finish (0,5 µm - Ra 20 surface finish) other materials at request
Mounting	Threaded (NPT-BSP) – Sanitary connections (3A / DIN 11.851) – others at request
Actuation length	From 25 mm up to 3300 mm (1" up to 130")
Operating process temp.	-40 °C up to +150 °C (-40 °F up to +300 °F) (standard version at max. +50 °C ambient)
Max pressure	103 bar @ +150 °C (1500 psi @ +300 °F). Flanged models are downrated to the design pressure of the selected flange.
Max viscosity	10.000 cP

ELECTRICAL WIRING

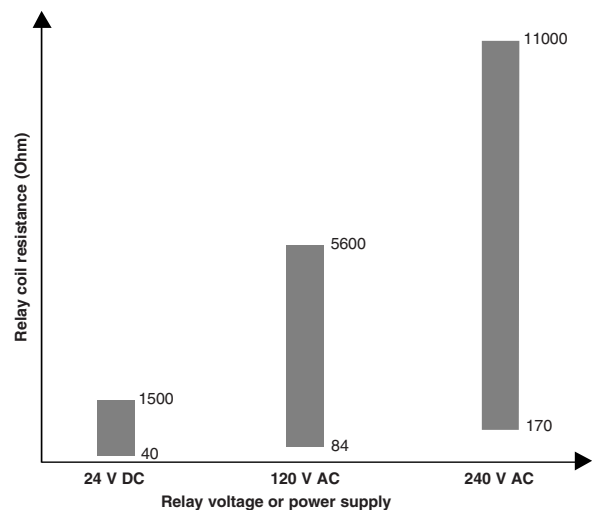
2-Wire, all voltage
24 ... 240 V AC/DC
Min 7.5 mA – max 500 mA load



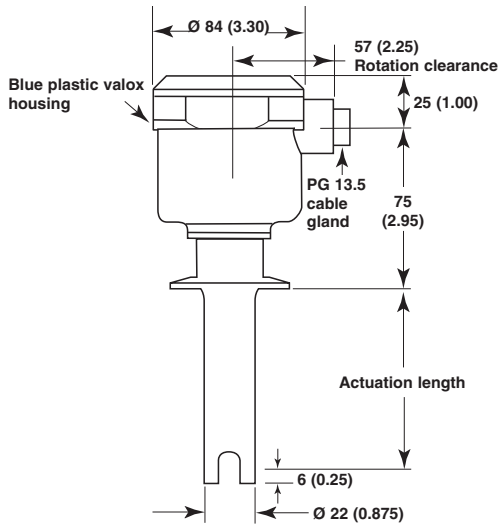
Relay version
3A SPDT @ 24 V DC



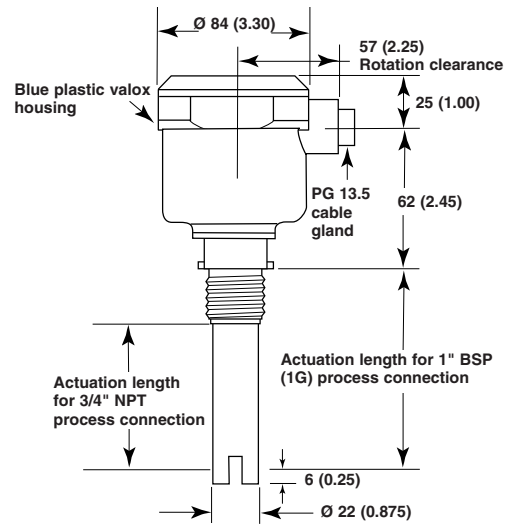
2-Wire, all voltage output graph (load always required)



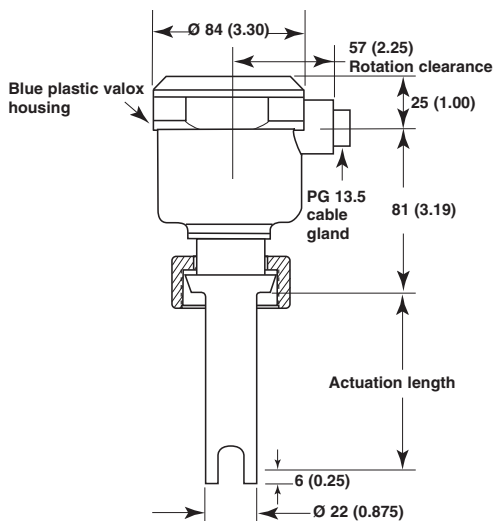
DIMENSIONS IN MM (inches)



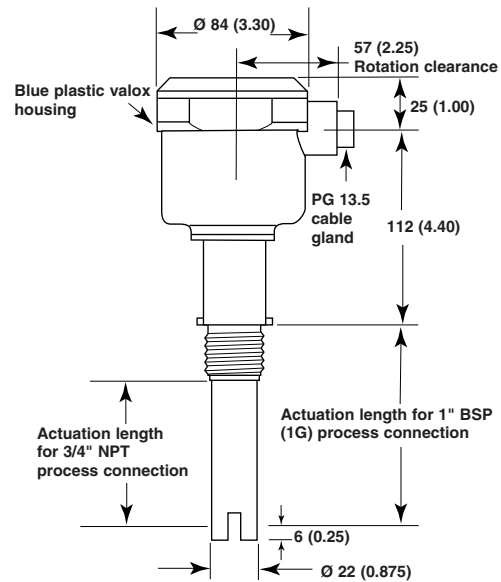
3A-triclamp coupling



Threaded connection



DIN 11.851 pipe coupling



Threaded connection with heat extension



QUALITY ASSURANCE - ISO 9001

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