



TX6375 Data Sheet

Humidity Sensor

Plant safety protection of humidity in heavy duty applications and industrial applications

Environments: Petrochemical processing • Mining and tunnelling • Offshore platforms • Manufacturing and process plants • Storage and warehousing • Water management and sewerage treatment • Power generation • Gas storage and distribution

Features

- Convenient pushbutton calibration of Zero and Span with drift free digital programming
- Pre-calibrated plug-in humidity modules with standardised output signal for convenient replacement and servicing
- Choice of analogue output signal:
 - 4 to 20 mA
 - 0.4 to 2 V
 - 5 to 15 Hz
- Security protected
- Digitally controlled programming for accuracy and stability

Benefits

- Signal fix during calibration to prevent false alarms
- The main circuit module inside the sensor housing can be removed from the housing for maintenance purposes
- Plug in module with retaining lock
- Standardised interface signal to enable easy interchange of modules
- Pushbutton calibration of ZERO and SPAN without the need to open the main housing
- The output process signal is fixed during calibration to prevent the initiation of false alarms



Certification pending



Functional Overview

Fixed humidity detection for point source hazards and perimeter protection in arduous duty and exposed locations.

Available with a choice of analogue output signals:

- 4 to 20 mA
- 0.4 to 2 V
- 5 to 15 Hz

Signal fix during calibration to prevent false alarms.

The main circuit inside the sensor housing can be removed from the housing for maintenance purposes.

Quick change plug-in pre-calibrated humidity sensing module.

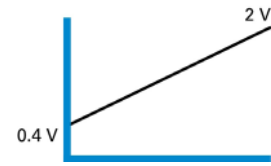


Technical Information

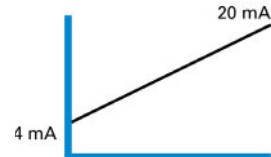
Ambient temperature limits:	-10 to +50°C
Storage temperature limits:	-20 to +60°C
Ambient pressure limits:	Atmospheric +/- 10%
Humidity:	90% RH non-condensing
Protection classification:	Dust and waterproof to IP66 Inlet port to IP54
Housing material:	PC/ABS anti-static
Nett weight:	450 g
Cable entries:	1 x M20
Electrical connections:	4 mm barrier/clamp terminals
Information display:	Graphic LCD screen
Vibration limits:	10 to 100 Hz, 0.25 mm peak 100 to 600 Hz, 2 g peak
Impact limits:	20 joules (housing)

Electrical Information

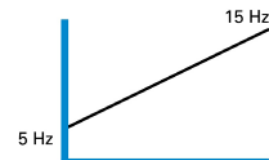
Output signal:	0.4 to 2 V
Minimum load at 12 V dc:	10 k ohms
Supply:	6.5 to 16.5 V dc
Nominal current:	<10 mA



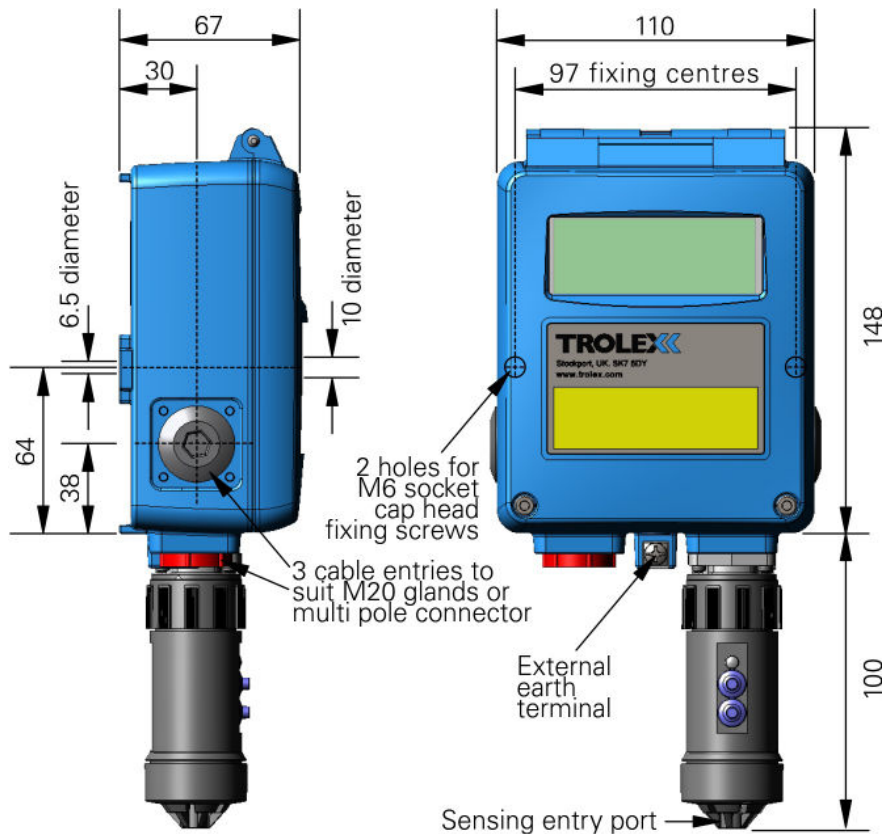
Output signal:	4 to 20 mA
Maximum load at 12 V dc:	275 ohms
Supply:	6.5 to 16.5 V dc
Maximum current:	24 mA



Output signal:	5 to 15 Hz
Maximum load:	Opto isolated 2 mA maximum
Supply:	6.5 to 16.5 V dc
Nominal current:	<20 mA



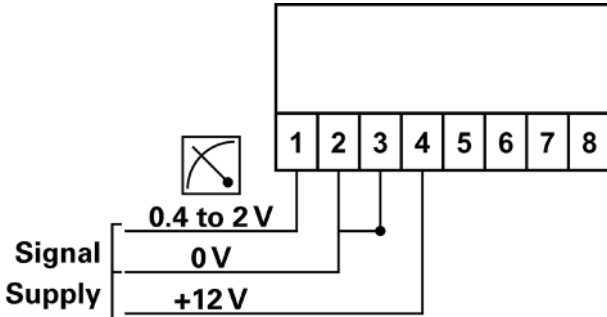
Dimensions



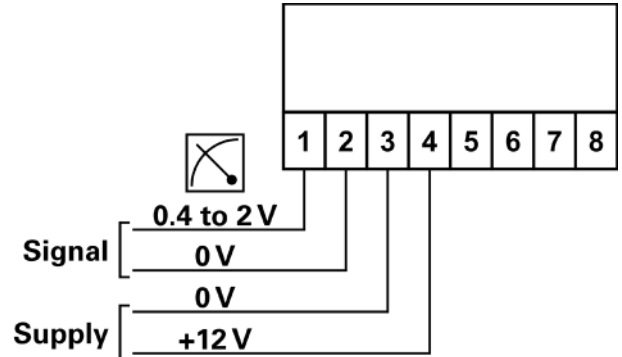
All dimensions in mm

Electrical Connections

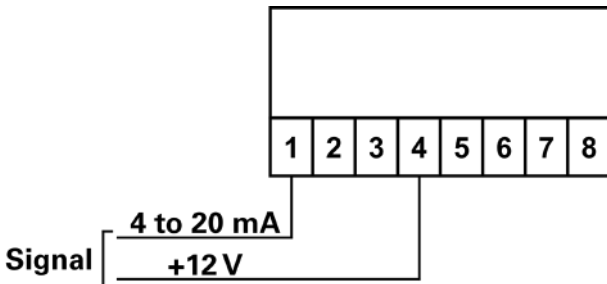
0.4 to 2 V • 3 Wire Output



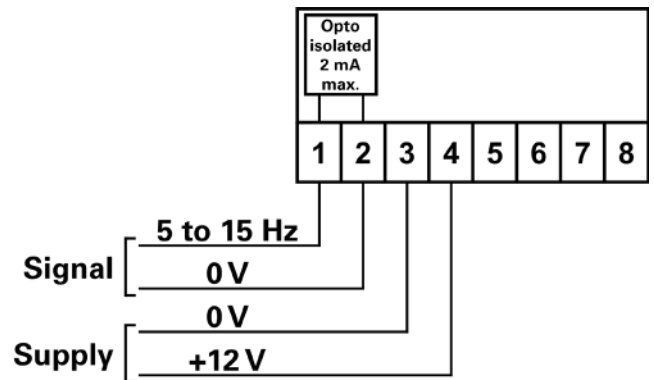
0.4 to 2 V • 4 Wire Output



4 to 20 mA Output



5 to 15 Hz Output



A pull-up resistor may be required at the monitoring device

Order Reference

TX6375 Humidity Sensor • Mining and Tunnelling

0.4 to 2 V Output	4 to 20 mA Output	5 to 15 Hz Output
TX6375.11	TX6375.12	TX6375.13

Please contact the Trolex Sales Team for further information and advice:

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TX6375 Data Sheet

Certifications



Europe ATEX
Certification pending



International IECEx
Certification pending



Russia (GOST-R)
Certification pending



South Africa MASC:
Certification pending

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