



Process Automation



# Process Automation

Level Sensors | Level Detectors | Overfill Prevention



Accuracy



Flexible



Reliable

Sensors and Systems: [www.fafnir.com](http://www.fafnir.com)

# Accessories

## Collective Acknowledgement Unit Sam 8

The collective acknowledgement unit can connect to a maximum of 8 transducers. The signal from just one of the eight transducers trigger the alarm. This switches two relay terminals, one acknowledgeable (e.g. an audible alarm) and one not (e.g. an optical alarm).



### SAM 8 – Technical Data

Name	Description
Auxiliary power	230 V <sub>AC</sub>
Power input	8 VA
Ambient temperature	+5 °C ... +40 °C
Protection class	IP20
Dimensions (mm)	H 75 x W 100 x D 63
Outputs	230 V switched; 1 x acknowledgeable changeover contact, 1 x non-acknowledgeable changeover contact; Load: max. 1 A
Inputs	1 x Acknowledge button (NC normally closed contact), switching capacity: 230 V (50Hz), 10 mA; 8 x Switching input; switching capacity: 230 V <sub>AC</sub> (50 Hz), 1.7 mA

## Acknowledgement Unit QE 200

The acknowledgement unit extends the functionality of the LS 500 and NB 220 H measuring transducers with two auxiliary power supply loaded changeover contacts and an acknowledgement function. Acoustic and visual alarm transmitters can therefore be integrated into the system.



### QE 200 – Technical Data

Name	Description
Auxiliary power	230 V <sub>AC</sub> ; 24 V <sub>DC</sub>
Power input	Max. 2 VA, 2 W
Ambient temperature	-25 °C ... +60 °C
Protection class	IP40
Dimensions	H 110 x W 50 x D 125 [mm]
Outputs	Switched auxiliary power supply; 1 x acknowledgeable alarm, 1 x non-acknowledgeable alarm; Load: together, max. 100 W
Inputs	Acknowledgement button (NO), control input (for connecting the LS 500 or the NB 220 H)

## Wall Fitting 907 Z

In combination with the Wall Fitting 907 Z, our overflow prevention device (76 with NB 220) can be used as limit sensor for the filling from a tanker. The plug in the Wall Fitting serves as the counterpart for the 903 junction boxes usual in the tankers. The Wall Fitting is connected to the relay output of the NB 220. This allows the overfilling to be signalled back to the tank truck.



Sample application:

Delivering fresh oil (motor oil, transmission oil, etc.) by tank trucks with amplifiers.

## HPH Ex d

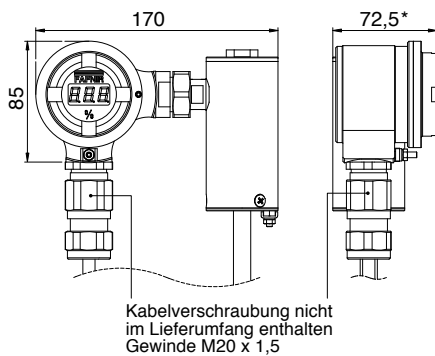
### High Pressure Connection Housing for the TORRIX and CONDURIX

HPH Ex d is a connection housing with ignition protection "Ex d" (flameproof enclosure) for the supply of intrinsically safe sensors with non-intrinsically safe power supply units.



### Main Features and Benefits

- + On-site display for level indication
- + 10mm LED, adjustable display
- + Easy to install
- + Intrinsically safe power supply for Ex zone 0
- + ATEX and IECEx approval
- + Robust design



\* with display: 72.5  
without display: 65.5

### HPH Ex d – Technical data

#### Operating data

**Ambient temperature** 0 °C ... +85 °C

**Protection class** IP68

**Auxiliary power** 21 ... 26 V without display  
21 ... 29 V with display

**Voltage drop** 8 V without display (Ex)  
11 V with display (Ex)  
4 V with display

**Accuracy** 0.1 % (4 ... 20 mA)

#### Display

3-digit display  
10 mm  
0.0 % [4 mA] ... 100 % [20 mA]

**Display range** -9.9 % ... +199 %

## UM-X

### Standalone Measuring Transducer for Continuous Level Measurement

In field housing, the UM-X offers a convenient, stand-alone display for your level measurement.



### Main Features and Benefits

- + Easy, menu-driven graphical user interface
- + Compatible for use with all sensors with 4 ... 20 mA interface
- + Intrinsically safe electrical circuit with ATEX approval (Ex ia)
- + In combination with TORRIX, approved as overflow prevention fulfilling the requirement of the German Water Resources Act (WHG)
- + Pump control (alternating)
- + Continuous display of the filling level
- + Filling level can be displayed in mm, inches, % or mA

### UM-X – Technical Data

#### Operating data

**Auxiliary power** 230 V<sub>AC</sub>, 115 V<sub>AC</sub>, 24 V<sub>DC</sub> or 24 V<sub>AC</sub>

**Maximum power input** < 5 W, < 8 VA

**Ambient temperature** -20 °C ... +50 °C

**Protection class** IP64

**Accuracy** 0.1 % (4 ... 20 mA)

**Sensor electrical circuit** 4 ... 20 mA; U<sub>0</sub> = 28 V  
Short circuit proof

#### Output

**Five relays each with potential-free changeover contact Load**  
AC: U ≤ 250 V, I ≤ 5 A, P ≤ 100 VA  
DC: U ≤ 250 V, I ≤ 250 mA, P ≤ 50 W

**Dimensions (mm)** H 130 x W 180 x D 50



FAFNIR GmbH  
Schnackenburgallee 149 c  
22525 Hamburg  
Phone: +49/40/39 82 07-0  
Fax: +49/40/390 63 39  
E-Mail: [info@fafnir.com](mailto:info@fafnir.com)  
Internet: [www.fafnir.com](http://www.fafnir.com)

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