

Wall Fitting 907 Z

Auxiliary Device



Version: 7

Edition: 2021-08

Art. no.: 350243



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1 Wall Fitting 907 Z

1.1 Intended Use

If other fluids are discharged than fuel oil or diesel from a road tanker (tank truck) with overfill protection control, the auxiliary device 907 Z may be installed in addition to the approved overfill protection system. The auxiliary device type 907 Z cannot be used for explosive liquids!

The wall fitting is suitable for use indoors and outdoors as well as for altitudes above 2000 m in wet environment.

This type of control device belongs to the part of the overfill protection system which does not require approval.

The visual and audible alarm signal is not affected.

1.2 Safety Instructions

Please observe the following safety instructions:

- The device must only be used for its intended purpose.
- The installation, operation and maintenance of the device must only be carried out by expert personnel. Specialised knowledge must be acquired by regular training.
- Operators, installers and service technicians must comply with all applicable safety regulations. This also applies to the local safety and accident prevention regulations that are not mentioned in this guide.
- Before commissioning, all system parts of the overfill protection device must be checked for correct connection and proper function. The electrical supply, including downstream devices, must be checked.
- The opening of the device is not permitted, as the maintenance of safety cannot be guaranteed after reassembly.
- Do not change or modify the system or add any equipment without the prior consent of the manufacturer.

The safety instructions in this guide are marked as follows:



Not observing these safety instructions may result in the risk of accident or damages to the system.



Useful information which ensures continued and correct operation of equipment and makes your work easier.

1.3 Function Description

1. The coupling socket 903 of the tank truck is plugged to the auxiliary device 907 Z.
2. The overfill protection device releases the delivery and at the same time a voltage is transmitted to the auxiliary device via the output of the measuring transducer.
3. Then a PTC resistor inside the 907 Z is switch in the circuit of the two pins of the 907 Z.
4. The switching amplifier located in the tank truck evaluates the PTC resistor like an Overfill Prevention Sensor and releases the delivery from the tank truck.
5. If the maximum filling degree is reached, the measuring transducer triggers the visual and audible alarm signal and the PTC resistor is interrupted in the auxiliary device.
6. This locks the actuator in the tank truck.
7. The filling process is finished.

1.4 Notes for Installation and Commissioning

The device is designed for wall mounting. Two holes with a diameter of 6.5 mm each are available for installation. The supporting surface (wall) must be suitable, e.g. stone or concrete. A suitable fastening material (screws, dowels, etc.) must be selected.

The device is already equipped with a flexible connection cable ($3 \times 1 \text{ mm}^2$, copper). For an extension, an equivalent or better cable must be selected. For safety reasons, the protective conductor (green-yellow wire) of the connection cable must be connected to the external protective conductor system. If the auxiliary device is used in conjunction with the measuring transducer NB 220 ..., then the wires are to be connected in accordance with Table 1: Wire assignment:

Since the wall fitting is intended for a supply from the mains, an overcurrent protection device (fuses, circuit breakers, thermal releases, current-limiting impedances or similar devices) must be connected upstream. The overcurrent protection device must not exceed a rated current I_n of 16 A and the characteristic must be selected for a short-circuit current of 141 A to be switched off within one second (1 s).

There must be available a switch or circuit breaker in the building installation. It must be placed suitably and easily accessibly for the user and marked as a separating device for the wall fitting. It is recommended that the switch or circuit breaker is installed near the wall fitting.

The connection for the control device is intended for tank trucks that are equipped with a socket coupler (type ... 903) and a power interface according to EN 16657.

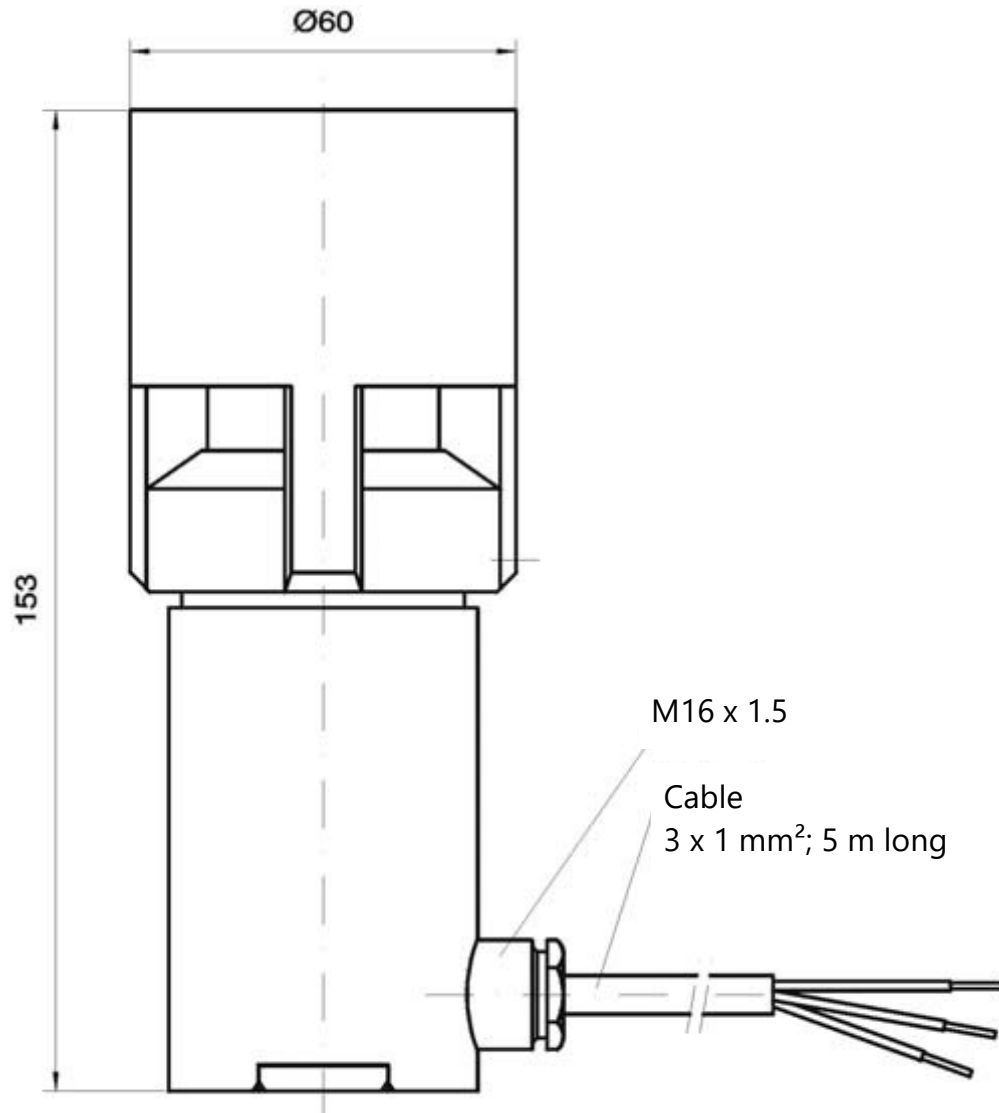


The security of the system in which the device is integrated is the responsibility of the system installer.

1.5 Operation

The coupling socket type ... 903 of the tank truck is plugged to the auxiliary device. The correct function of the wall fitting must be tested before a filling process. If the upstream overfill protection is equipped with a test button, this should be actuated to test the alarm function of the control device. A dipping of the ullage must definitely be carried out.

1.6 Wire Assignment



				Bridge
Wire colours	yellow-green	blue	brown	
NB 220 H; terminal no.	10	11	4	12/6
NB 220 QS; terminal no.	14	8	4	
NB 220 QSF; terminal no.	11	12	6	13/5

Table 1: Wire assignment

2 Maintenance

2.1 Cleaning

The stainless-steel housing of the device may be cleaned. Commercially available cleaning agents can be used.

2.2 Servicing

FAFNIR devices are generally maintenance-free.

2.3 Return Shipment




Before returning any FAFNIR device, the Return Material Authorization (RMA) is required. Please contact your account manager or the technical support team, who will inform you about the details of the return.

Phone	+49 / 40 / 39 82 07 – 0
Availability (CET)	Mon. to Thu. 7:00 a.m. to 5:00 p.m., Fri. 7:00 a.m. to 4:00 p.m.



The return of FAFNIR devices is only possible with the authorization (RMA) by the FAFNIR support team.

3 Technical Data

Power supply  Observe the device labels for the power supply!	$\sim 230 \text{ V}_{AC} \pm 10 \%$; 50 Hz; 1.1 VA or  $24 \text{ V}_{AC/DC} \pm 10 \%$; 900 mW or  $24 \text{ V}_{DC} \pm 10 \%$; 900 mW
Connection of the controller	Only for connecting a control device according to EN 16657
Altitude	up to 5,000 m
Ambient temperature	-25 °C to +60 °C
Relative humidity	$\leq 85 \%$
Voltage overload category	II
Degree of pollution	4
Protection class	IP47



**EU-Konformitätserklärung
EU Declaration of Conformity
Déclaration UE de Conformité
Dichiarazione di Conformità UE**



FAFNIR GmbH, Deutschland / Germany / Allemagne / Germania

erklärt als Hersteller in alleiniger Verantwortung, dass das Produkt
declares as manufacturer under sole responsibility that the product
déclare sous sa seule responsabilité en qualité de fabricant que le produit
dichiara sotto la sola responsabilità del produttore, che il prodotto

**Wandarmatur / Wall Fitting / Raccord mural / Attacco a parete
907 Z**

den Vorschriften der europäischen Richtlinien
complies with the regulations of the European directives
est conforme aux réglementations des directives européennes suivantes
è conforme ai regolamenti delle direttive europee

2011/65/EU	Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten	RoHS
2011/65/EU	Restriction of the use of certain hazardous substances in electrical and electronic equipment	RoHS
2011/65/UE	Limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques	RoHS
2011/65/UE	Restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche	RoHS
2014/30/EU	Elektromagnetische Verträglichkeit	EMV
2014/30/EU	Electromagnetic compatibility	EMC
2014/30/UE	Compatibilité électromagnétique	CEM
2014/30/UE	Compatibilità elettromagnetica	CEM
2014/35/EU	Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt	NSRL
2014/35/EU	Making available on the market of electrical equipment designed for use within certain voltage limits	LVD
2014/35/UE	Mise à disposition sur le marché du matériel électrique destiné à être employé dans certaines limites de tension	DBT
2014/35/UE	Messa a disposizione sul mercato del materiale elettrico destinato a essere adoperato entro taluni limiti di tensione	LVD

durch die Anwendung folgender harmonisierter Normen entspricht
by applying the harmonised standards
par l'application des normes
applicando le norme armonizzate

**RoHS / RoHS / RoHS / RoHS
EMV / EMC / CEM / CEM
NSRL / LVD / DBT / LVD**

**EN IEC 63000:2018
EN 61326-1:2013
EN 61010-1:2010 + A1:2019 + A1:2019/AC:2019**

Das Produkt ist bestimmt als Elektro- und Elektronikgerät der RoHS-
The product is determined as electrical and electronic equipment of RoHS
Le produit est déterminé comme des équipements électriques et électroniques de RoHS
Il prodotto è determinato come apparecchiatura elettrica ed elettronica di RoHS

Kategorie / Category / Catégorie / Categoria

**Überwachungs- und Kontrollinstrumenten in der Industrie /
Industrial Monitoring and Control Instruments /
Instruments de contrôle et de surveillance industriels /
Strumenti di monitoraggio e controllo industriali**

Das Produkt entspricht den EMV-Anforderungen
The product complies with the EMC requirements
Le produit est conforme aux exigences CEM
Il prodotto è conforme ai requisiti CEM

**Störaussendung / Emission / Émission / L'emissione
Störfestigkeit / Immunity / D'immunité / Immunità**

**Klasse B / Class B / Classe B / Classe B
Industrielle elektromagnetische Umgebung /
Industrial electromagnetic environment /
Environnement électromagnétique industriel /
Ambiente elettromagnetico industriale**

Das Produkt entspricht dem NSRL-Konformitätsbewertungsverfahren
The product complies with the LVD conformity assessment procedure
Le produit est conforme avec la procédure d'évaluation de conformité DBT
Il prodotto è conforme alla procedura di valutazione della conformità LVD

907 Z (230 V_{Ac})

Modul A / Module A / Module A / Modulo A

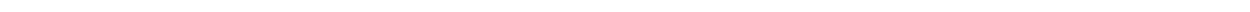
Hamburg, 14.01.2021

Ort, Datum / Place, Date / Lieu, Date / Luogo, data


Geschäftsführer / Managing Director / Gérant / Direttore Generale: René Albrecht



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