



Order Code 2017  
Process Automation



# Price List Process Automation

Level Sensors | Level Switches | Overfill Prevention



Accurate



Flexible



Reliable

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



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# TORRIX



## Order Code – TORRIX

### Version

TORRIX (order code)							
<b>Approvals</b>	Without	NN					
	Ex (ATEX and IECEx)	EX					
<b>Electrical output</b>	4 to 20 mA	AN					
	4 to 20 mA/HART®	HA					
<b>Material</b>	Stainless Steel 316 Ti	SS					
<b>Version</b>	Standard (Ø 12 mm probe tube) for variable screw connection					SV	
	Standard (Ø 12 mm probe tube) for welded screw connection or flange					SF	
	Bypass (Ø 12 mm probe tube) for magnetic level indicator					SB	
	TORRIX 90 (Ø 12 mm probe tube; housing bended)**					90	
	TORRIX 6 (Ø 6 mm probe tube centred)***					6S	
	TORRIX 6 B (Ø 6 mm probe tube, off-centred)***					6B	
<b>Length</b>							
<b>Temperature range</b>	Normal temperature (- 40 °C to +125 °C) max. 6,000 mm						NT
	High temperature (- 40 °C to +250 °C) max. 6,000 mm						HT
	Highest temperature (- 40 °C to + 450 °C) max. 3,000 mm						HH
	Low temperature (- 65 °C to +125 °C) max. 1,500 mm						LT

\* Other material on request.

\*\* Temperature range -40 °C to +85 °C.

\*\*\* Only NT (-40 °C to +125 °C).

## Order Code – TORRIX Cable Terminal

Description	Order number	Order code
Cable gland – Standard for cable diameter of 5 to 10 mm		CG6
Cable gland M20 x 1,5 with reduction M16 x 1,5	909391	CG2
Cable gland M20 x 1,5 – Nickel-plated brass	909038	CG1
M12 connector – Nickel-plated brass	908761	M12
M20 x 1,5 female thread	908757	IM2
½" NPT male thread	909037	NP1
½" NPT female thread	908758	NP2

## Order code – Special Designs

(Please indicate in addition to standard order code)

Description TORRIX Special Designs	Order code
Vibration-resistant version (TORRIX NT and TORRIX Flange NT only)**	V
Increased accuracy $\pm 0.3$ mm (TORRIX NT and TORRIX Flange NT only)*,**	P
Surface treatment – electropolished	E

\* In combination with precision float only.

\*\* Temperature range  $-40$  °C to  $+85$  °C.

## Order numbers – Certificates

Description	Order number
Inspection certificate 3.1 in accordance with EN 10204:2004	904495
Inspection certificate 3.1 with supplier report in accordance with EN 10204:2004	904496
TORRIX calibration protocol	904498
Factory setting	

# TORRIX RS485



## Order code – TORRIX RS485

### Version

	<b>TORRIX</b> (order code)		- RS485 -						
<b>Approvals</b>	Without	NN							
	Ex (ATEX and IECEx)	EX							
<b>Material</b> (probe tube)	Stainless Steel 316 Ti*	SS							
<b>Version</b>	Standard (12 mm) for variable screw connection	SV							
	Standard (12 mm) for welded screw connection or flange	SF							
	TORRIX 90 (Ø 12 mm; housing bended)**	90							
	TORRIX 6 (6 mm probe tube, centred)***	6S							
	TORRIX 6 B (6 mm probe tube, off-centred)***	6B							
<b>Length</b>									
	<b>Temperature range</b>	Normal temperature (- 40 °C to +125 °C) max. 6,000 mm	NT						
		High temperature (- 40 °C to +250 °C) max. 6,000 mm	HT						
		Highest temperature (- 40 °C to + 450 °C) max. 3,000 mm							
		Low temperature (- 65 °C to +125 °C) max. 1,500 mm	HH						
	Lowest temperature (- 200 °C to +85 °C) max. 1,500 mm	LT							
<b>Electrical output</b>		Modbus Protocol (ASCII)	MB						
		FAFNIR Universal Device Protocol	UD						
		FAFNIR Digital Access Protocol	DA						

\* Other material on request.

\*\* Temperature range- 40 °C to + 85 °C.

\*\*\* Only NT (- 40 °C to +125 °C).

## Order code – Special Designs

(Please indicate in addition to standard order code)

Description	Order code
Vibration-resistant version (TORRIX RS485 NT and TORRIX RS485 Flange NT only)*	VT
Advanced Version with increased accuracy*,**	A
Temperature measurement with 5 temperature sensors*	5T
Surface treatment – electropolished	E

\* Only available as SV/SF version; temperature range - 40 °C to +85 °C.

\*\* Increased accuracy only in combination with a precision float.

# TORRIX RS485I



## Order numbers – TORRIX RS485I

Length	Material	Temperature range	Order number
<b>TORRIX RS485I</b> with Ex-Approval (with 5 temperature sensors)			
1,900 mm	304	- 40 °C to + 85 °C	*
2,300 mm	304	- 40 °C to + 85 °C	*
2,800 mm	304	- 40 °C to + 85 °C	908749
3,200 mm	304	- 40 °C to + 85 °C	*

Protocols: Modbus (ASCII), FAFNIR Universal Device Protocol, FAFNIR Digital Access Protocol

\* On request.

## Order numbers – Installation kit for fuel tanks\*

Name	Order number
Installation kit 1" for Regular Fuel up to E10	908493
Installation kit 1" for Diesel Fuel	908484
Installation kit 1½" for Regular Fuel up to E15	900158
Installation kit 1½" for Diesel Fuel	900159
Installation kit 2" Advanced for Regular Fuel up to E15 **	900161
Installation kit 2" Advanced for Diesel Fuel **	900160

\* Consists of product, waterfloat and brass process connection.

\*\* Only in combination with the Advanced version.

## Order numbers – Accessories

Name	Order number
Connecting cable M12; 4-wire; 2 m; straight	908613
Connecting cable M12; 4-wire; 2 m; right angled	908614
FAFNIR USB Adapter for TORRIX RS485	900187

# TORRIX SC



## Order code – TORRIX SC

### Ausführung

TORRIX (order code)			-	SC	-		-		-	
<b>Approvals</b>	Without	NN								
	Ex (ATEX and IECEx)	EX								
<b>Material</b> (probe tube)		Stainless Steel 316 Ti*		SS						
<b>Version</b>	Standard (Ø 12 mm) for variable screw connection					SV				
	Standard (Ø 12 mm) for welded screw connection or flange					SF				
	TORRIX 90 (Ø 12 mm; housing bended)**					90				
	TORRIX 6 (Ø 6 mm probe tube, centred)***					6S				
	TORRIX 6 B (Ø 6 mm probe tube, off-centred)***					6B				
<b>Length</b>										
<b>Temperature range</b>	Normal temperature (- 40 °C to +125 °C) max. 6,000 mm									NT
	High temperature (- 40 °C to +250 °C) max. 6,000 mm									HT
	Highest temperature (- 40 °C to + 450 °C) max. 3,000 mm									HH
	Low temperature (- 65 °C to +125 °C) max. 1,500 mm									LT
	Lowest temperature (- 200 °C to +85 °C) max. 1,500 mm									LL

\* Other material on request.

\*\* Temperature range- 40 °C to + 85 °C.

\*\*\* Only NT (- 40 °C to +125 °C).

## Order code – Special Designs

(Please indicate in addition to standard order code)

### Description

Description	Order code
Vibration-resistant version in accordance with OIML D11 (TORRIX RS485 NT and TORRIX RS485 Flange NT only)*	VT
Advanced Version with increased accuracy*,**	A
Temperature measurement with 5 temperature sensors*	5T
Surface treatment – electropolished	E

\* Only available as SV/SF version; temperature range - 40 °C to +85 °C.  
Increased accuracy only in combination with a precision float.



# TORRIX Flex



## Order code – TORRIX Flex

### Ausführung

TORRIX Flex (order code)						
<b>Approvals</b>	Without	NN				
	Ex (ATEX and IECEx)	EX				
<b>Communication</b>	RS-485-interface – Modbus (ASCII) Protocol	RS485	MB			
	RS-485-interface – FAFNIR UD Protocol	RS485	UD			
	4 to 20 mA/HART® *	C				
	Serial interface	SC				
<b>Type</b>	Flexible hose; 13 mm; for length of 1.5 m to 5 m		Flex F			
	Corrugated hose; 12 mm; for length of 3 m to 15 m <sup>**</sup> , <sup>***</sup>		Flex T			
<b>Length</b>						
<b>Temperature range</b>					Normal temperature (- 40 °C to +85 °C)	NT

\* Configuration of TORRIX C requires a FAFNIR USB Adapter (900185).

\*\* Stainless steel weight with reference magnet(s) mandatory for probes longer 7,500 mm.

\*\*\* Up to 19 meter available in 3rd quarter.

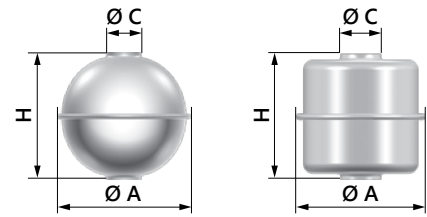
## Order numbers – TORRIX Flex Accessories

Name	Order number
Stainless steel weight with reference magnet; without fixture (non Ex)	909331
Stainless steel weight with magnet and one reference magnet*	909324
Stainless steel weight with magnet and two reference magnets**	909402
FAFNIR USB Adapter – configuration of TORRIX C Flex	900185

\* Mandatory for probes with one float if longer 7,500 mm.

\*\* Mandatory for probes with two floats if longer 7,500 mm.

# Floats



## Order numbers – Floats

For medium density	Temperature range	Max. operating pressure	Dimensions in mm			Shape	Order code
			A	H	C		
<b>Stainless Steel 316 Ti</b>							
≥0.95 g/cm <sup>3</sup>	- 200 °C to +250 °C	50 bar	43.0	40.0	15.0	Sphere	909115
≥0.85 g/cm <sup>3</sup>	- 200 °C to +250 °C	20 bar	43.0	40.0	15.5	Sphere	909130
≥0.70 g/cm <sup>3</sup>	- 200 °C to +250 °C	40 bar	52.0	52.0	15.5	Sphere	900013
≥0.60 g/cm <sup>3</sup>	- 200 °C to +250 °C	20 bar	52.0	49.0	15.5	Sphere	909109
≥0.45 g/cm <sup>3</sup>	- 40 °C to +250 °C	25 bar	83.0	82.0	15.0	Sphere	909229
≥0.60 g/cm <sup>3</sup>	- 40 °C to +250 °C	25 bar	120.0	46.0	38.0	Sphere	909009
≥0.70 g/cm <sup>3</sup>	- 200 °C to +250 °C	16 bar	43.0	43.0	15.5	Cylinder	909119
≥0.70 g/cm <sup>3</sup>	- 200 °C to +450 °C	16 bar	43.0	43.0	15.5	Cylinder	909207
≥0.70 g/cm <sup>3</sup>	- 200 °C to +250 °C	5 bar	29.5	40.0	12.5	Cylinder	908495
≥0.70 g/cm <sup>3</sup>	- 40 °C to +250 °C	1 bar	29.5	40.0	12.5	Cylinder	908770**
≥0.78 g/cm <sup>3</sup>	- 20 °C to +100 °C	16 bar	27.0	31.0	10.0	Cylinder	909236*
<b>Stainless Steel 316 Ti with conical spring for measurement of residual liquids</b>							
≥0.70 g/cm <sup>3</sup>	- 200 °C to +250 °C	16 bar	43.0	43.0	15.5	Cylinder	909383
≥0.70 g/cm <sup>3</sup>	- 40 °C to +250 °C	5 bar	29.5	40.0	12.5	Cylinder	909384
≥0.78 g/cm <sup>3</sup>	- 20 °C to +100 °C	16 bar	27.0	31.0	10.0	Cylinder	909385*
<b>Stainless Steel 316 Ti precision float</b>							
≥0.70 g/cm <sup>3</sup>	- 200 °C to +250 °C	atmosphere pressure	54.0	31.0	13.0/23.4	Cylinder	909353
<b>Titanium</b>							
≥0.50 g/cm <sup>3</sup>	- 200 °C to +250 °C	20 bar	50.0	48.0	15.4	Sphere	909113
≥0.40 g/cm <sup>3</sup>	- 40 °C to +125 °C	25 bar	83.0	81.0	15.0	Sphere	909140
≥0.50 g/cm <sup>3</sup>	- 40 °C to +125 °C	25 bar	98.0	96.0	23.0	Sphere	909177
≥0.69 g/cm <sup>3</sup>	- 200 °C to +450 °C	200 bar	60.0	59.0	14.5	Sphere	909205
<b>Hastelloy® C 276</b>							
≥0.70 g/cm <sup>3</sup>	- 200 °C to +250 °C	7 bar	46.0	48.0	15.2	Cylinder	909096
<b>BUNA</b>							
≥0.45 g/cm <sup>3</sup>	- 40 °C to +80 °C	16 bar	40.0	120.0	18.0	Cylinder	909183
≥0.45 g/cm <sup>3</sup>	- 40 °C to +80 °C	4 bar	30.0	45.0	13.0	Cylinder	909275
<b>Plastic float (POM with graphite)</b>							
≥0.65 g/cm <sup>3</sup>	- 40 °C to +80 °C	1 bar	55.0	14.0	12.5	Disc	909216

\* Only for TORRIX 6 and TORRIX 6B. Other floats on request.

\*\* Only for LT and LLT.

# Process Connections

(Other fittings and flanges on request)

## Order numbers – Process Connections

### Process Connections for TORRIX-Version SV (Ø 12 mm probe tube)

Threads	Material	Operating pressure	Order number
R 1½"	304	up to 3 bar	909338
R 1½"	Brass	up to 3 bar	909097

Threads	Material	Order number	Order number
		Cutting Ring Stainless Steel – up to 40 bar	Clamping Ring PTFE – up to 1.5 bar
G ¾"	316 Ti	909202	909336
G ½"	316 Ti	909092	909335
G ¾"	316 Ti	909355	909359
¾" NPT	316 Ti	909356	909360
½" NPT	316 Ti	909357	909361
¾" NPT	316 Ti	909358	909362

### Process Connections for TORRIX-Version 6S and 6B (Ø 6 mm probe tube)

Threads	Material	Order number	Order number
		Cutting Ring Stainless Steel – up to 16 bar	Clamping Ring PTFE – up to 1.5 bar
G ¼"	316 Ti	909368	909363
G ¾"	316 Ti	909369	909250
G ½"	316 Ti	909370	909364
¼" NPT	316 Ti	909371	909365
¾" NPT	316 Ti	909372	909366
½" NPT	316 Ti	909373	909367

## Order numbers – Process Connections

### Process Connections for TORRIX Version SF

Nominal Size	Pressure Rating	Material	Norm	Description	Order number
<b>Welded Flanges</b>					
DN 25	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909386
DN 50	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909262
DN 65	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909387
DN 80	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909257
DN 100	PN16	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN16 Compatible with Form C and Form D DIN 2527	909271
DN 100	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN25-PN40 Compatible with Form C and Form D DIN 2527	909294
2"	150 lbs	316 Ti	ANSI/ASME		909245
3"	150 lbs	316 Ti	ANSI/ASME		909237
<b>Welded Threads</b>					
2" NPT		316 Ti			909254
R 2"		316 Ti			909118
G 2"		316 Ti			909244

## Order numbers – Installation kit incl. float

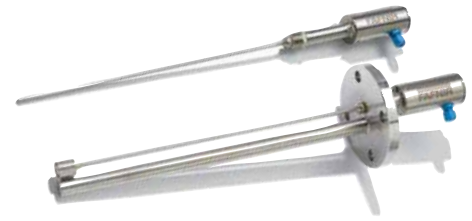
Name	Order number
LPG Installation kit (variable); with 3/4" NPT process connection	910020
Installation kit; Pipe Ø 18 mm; welded flange or thread	910050

## Order numbers – Installation kit in plastic incl. float

Material	Name	Order number
PP	Price for up to 1,000 mm with threaded connection (G 2" and G 3")	910051
PP	Price for up to 1,000 mm with flange (DN 65 to DN 100)	910048
PVC	Price for up to 1,000 mm with threaded connection (G 2" and G 3")	*
PVC	Price for up to 1,000 mm with flange (DN 65 to DN 100)	*
PVDF	Price for up to 1,000 mm with threaded connection (G 2" and G 3")	910049
PVDF	Price for up to 1,000 mm with flange (DN 65 to DN 100)	910052

\* On request.

# CONDURIX



Level Sensors

Level Switches

Overfill Prevention

## Order code – CONDURIX

### Ausführung

		CONDURIX (order code)					
<b>Approvals</b>	Without	NN					
	Ex (ATEX)	EX					
<b>Electrical output</b>	4 to 20 mA/HART®	HA					
<b>Material</b>	Stainless steel 316 Ti*	SS					
<b>Version</b>	Single-tube version Mono (Ø 6 mm)	MO					
	Single-tube version Mono (Ø 12 mm)	M2					
	Two-tube version DU	DU					
	Coaxial pipe with 8 mm external diameter	MA					
<b>Length:</b> Extra charge for probe or fitting length more than 1,000 mm / per 100 mm	Single-tube version Mono						
	Two-tube version DU						
<b>Temperature range</b>	Normal temperature (- 40 °C to +125 °C)	NT					
	High temperature (0 °C to + 200 °C), only Mono, max. 600 mm	HT					

\* Other materials on request.

## Order code – CONDURIX Cable Terminal

Description	Order number	Order code
Cable gland – Standard for cable diameter of 5 to 10 mm		CG6
Cable gland M20 x 1.5 with reduction M16 x 1.5	909391	CG2
Cable gland M20 x 1.5 – Nickel-plated brass	909038	CG1
M12 connector	908761	M12
M20 x 1.5 female thread	908757	IM2
½" NPT male thread	909037	NP1
½" NPT female thread	908758	NP2

## Order numbers – Certificates

Description	Order number
Inspection certificate 3.1 in accordance with EN 10204:2004	904495
Inspection certificate 3.1 with supplier report in accordance with EN 10204:2004	904496
Factory setting	

## Process Connections for CONDURIX Mono and DU – Threads

Threads	Material	Description	Order number
R ½"	316 Ti	only for CONDURIX HT	*
R ¾"	316 Ti	only for CONDURIX HT and CONDURIX Mono 6 mm	*
R 1"	316 Ti	only for CONDURIX HT and CONDURIX Mono	*
R 1½"	316 Ti	only for CONDURIX HT and CONDURIX Mono	*
R 2"	316 Ti		*
½" NPT	316 Ti	only for CONDURIX HT only	*
¾" NPT	316 Ti	only for CONDURIX HT and CONDURIX Mono 6 mm	*
1" NPT	316 Ti	only for CONDURIX HT and CONDURIX Mono	*
1½" NPT	316 Ti	only for CONDURIX HT and CONDURIX Mono	*
2" NPT	316 Ti		*

\* On request.

## Process Connections for CONDURIX Mono and DU – Flanges

Nominal Size	Pressure Rating	Material	Norm	Description	Order number
DN 25	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909386
DN 50	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909262
DN 65	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909387
DN 80	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN40 Compatible with Form C and Form D DIN 2527	909257
DN 100	PN16	316 Ti	EN 1092-1 Form B1	For pressure rating PN10-PN16 Compatible with Form C and Form D DIN 2527	909271
DN 100	PN40	316 Ti	EN 1092-1 Form B1	For pressure rating PN25-PN40 Compatible with Form C and Form D DIN 2527	909294
2"	150 lbs	316 Ti	ANSI/ASME		909245
3"	150 lbs	316 Ti	ANSI/ASME		909237

### Process Connections for CONDURIX MA

Threads	Material	Order number	
		Cutting Ring Stainless Steel	Clamping Ring PTFE – up to 1.5 bar
G ¼"	316 Ti	909374	909325
G ⅜"	316 Ti	909375	909379
G ½"	316 Ti	909376	909334
¼" NPT	316 Ti	909288	909380
⅜" NPT	316 Ti	909377	909381
½" NPT	316 Ti	909378	909382

# DIVELIX



### Order numbers – DIVELIX

Name	Description	Order number
DIVELIX 4I	0 to 400 mbar*; 4 to 20 mA; R ¼"	900057
DIVELIX 4U	0 to 400 mbar*; 0 to 10 V; R ⅜"	900058

\* Other pressure range on request.

# LS 500



## Order code – LS 500

### Version

Version					
<b>LS 500</b> (order code)			-		
	LS 500 (wall housing)	WS			
	LS 500 H S (DIN rail)*	HS			
	LS 500 H SIL 2 (DIN rail)*/**/***	H2			
	LS 500 H DUO (no option available)*/**	HD			
<b>Function</b>	Overfill prevention device	U			
	Run-dry protection	T			
<b>Options</b>		None	N		
	Addition alarm relay (replaces dysfunction relay)		Z		
<b>Power supply</b>		LS 500 ... 230 V <sub>AC</sub>		230	
		LS 500 ... 115 V <sub>AC</sub>		115	
		LS 500 ... 24 V <sub>DC</sub>		24D	
		LS 500 ... 24 V <sub>AC</sub>		24A	

\* DIN rail version only with 24 V<sub>DC</sub>.  
 \*\* No additional or dysfunction relay.  
 \*\*\* Available 3rd quarter 2017.

## Order number – LS 500 Accessories

Name	Order number
Power supply 230 V <sub>AC</sub> for LS 500 H ... for max. two LS 500 H ... DUO or four LS 500 H ... Mono (24 V <sub>DC</sub> / 30 W)	904766



# LS 300



## Order code – LS 300

### Version

LS 300 (order code)									
<b>Material*</b> (probe tube)	Stainless Steel 316 Ti	SS							
<b>Process connection**</b>	Probe tube Ø 10 mm with screw-in units G 3/8"	EN							
	Probe tube Ø 24 mm with screw-in units G 1"	ES							
	Probe tube Ø 10 mm with flange DN 15	FN							
	Probe tube Ø 24 mm with flange DN 25	FS							
<b>Length</b>	Standard (Ø 10 mm)								
	Heavy (Ø 24 mm)								
<b>Pneumatic test connection</b>		None	N						
	Including test connection without check valve		P						
	Including test connection with check valve		R						
<b>Pressure range</b>		0 to 3 bar	03						
		0 to 6 bar	06						
		0 to 10 bar	10						
		0 to 16 bar	16						
		0 to 25 bar	25						
<b>Temperature range</b>		Normal temperature (- 25 °C to + 50 °C)	NT						
		High temperature (- 25 °C to + 80 °C)	HT						
		Highest temperature (0 °C to + 110 °C)	HH						
		Low temperature, pressure-free (- 40 °C to + 50 °C)	LT						
<b>Cable terminal</b>		Cable gland M16 x 1.5	CC						
		Coupling DD 28	DD						
		Moulded cable (no surge arrester)	FC						
<b>Protective sleeve</b>		Standard – mechanical protection sleeve	PS						
		For strong vapour movement	VM						
		For very strong vapour movement	HM						

\* Other materials on request.

\*\* Other process connection on request.

# LS 300 Duo

## Order code – LS 300 Duo

### Version

LS 300 Duo (order code)											
<b>Material*</b> (probe tube)	Stainless steel 316 Ti	SS									
<b>Version</b> (probe tube)	Separate terminal housing	2									
	Terminal housing	1									
	Plug connection DD	S									
<b>Process connection</b>	Screw-in units G 3/8"; Probe tube Ø 12 mm	EN									
	Screw-in units G 1"; Probe tube Ø 24 mm	ES									
	Flange (DN15) Probe tube Ø 10 mm	FN									
	Flange (DN25) Probe tube Ø 24 mm	FS									
<b>Length</b>	Fitting / Probe length 1										
	Fitting / Probe length 2										
<b>Options</b>	None	NN									
	Fitting point variable	V1									
	Both fitting points variable (only R 2")	V2									
<b>Temperature range</b>	Normal temperature (-25 °C to +50 °C)	NT									
	High temperature (-25 °C to +80 °C)	HT									
	Low temperature, pressure-free (-40 °C to +50 °C)	LT									
<b>Pressure range</b>	0 to 3 bar	03									
	0 to 6 bar	06									
	0 to 10 bar	10									
	0 to 16 bar	16									
	0 to 25 bar	25									
<b>Protective sleeve</b>	Standard – mechanical protection sleeve	PS									
	For vapour movement	VM									
	For strong vapour movement	HM									
<b>Pneumatic test connection</b>	None	N									
	With	P									
	With check valve	R									

\* Other materials on request.

# LS 300 Special Designs

## Order numbers – LS 300 Special Designs

Name	Description	Order number
<b>LS 300</b> with plug-in connector*	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 1 response point for high level alarms; Response point 98 mm	905616
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 1 response point for low level alarms; Response point: 273 mm; i.e. for 10 litre barrels	905618
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 1 response point for low level alarms; Response point: 408 mm; i.e. for 30 litre barrels	905619
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 1 response point for low level alarms; Response point: 930 mm; i.e. for 185 litre barrels	905620
<b>LS 300 Duo</b> with plug-in connector*	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 2 response points for high level alarms; Response point: 98 mm and 108 mm	905615
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 2 response points for low level alarms; Response point: 233 mm and 273 mm; i.e. for 10 litre barrels	905610
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 2 response points for low level alarms; Response point: 373 mm and 408 mm; i.e. for 30 litre barrels	905613
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 2 response points for low level alarms; Response point: 880 mm and 930 mm; i.e. for 185 litre barrels	905622
	M12 Connector with G 3/8" process connection; Probe tube Ø 12 mm; 2 response points for low level alarms; Response point: < 500 mm	905637
<b>LS 300 E B6</b>	Compact version with R 1/4" process connection; without junction box with 5 m cable, without protection sleeve	908326
<b>LS 300 B3</b>	LS 300 sensor tube 3 mm; without junction box, with protection sleeve	901112
	LS 300 sensor tube 3 mm; without junction box, without protection sleeve	908329
<b>LS 300 EX HH</b>	Flexible version; without junction box, with protection sleeve	901723
<b>LS 300 B6 Interstitial</b>	Interstitial leak detection system for double wall tanks; Consisting of the LS 300 B6 sensor and the LS 500 S transmitter	908339
<b>LS 300 FU</b>	LS 300 with intermediate flange for DN 50	901659

\* Other response length on request.

# LOF

## Order code – LOF

### Version

	LOF (order code)		-		-		-		-	
<b>Material</b>	Stainless steel 316 Ti	SS								
<b>Version</b>	Standard (Ø 10 mm; LOF 1.11)	S1								
	Standard (Ø 24 mm; LOF 1.11)	S2								
	Offset transformer (Ø 10 mm; LOF 1.12)	P1								
	Offset transformer (Ø 3 mm without process connection; LOF 1.12)	P3								
	Flexible version (Ø 10 mm; LOF 1.13)	F1								
<b>Process connection</b>		None		NN						
	G 3/8" with Ø 10 mm probe tube; G1" with Ø 24 mm probe tube	EU								
	Flange DN15 with Ø 10 mm probe tube; Flange DN15 with Ø 24 mm probe tube	FU								
<b>Length</b>										
<b>Temperature range*</b>		Normal temperature (- 40 °C to + 125 °C)		NT						
<b>Approvals</b>				None				NN		
				Ex				EX		

\* Other temperature range on request.

## Order numbers – LOF 1.13 Special Version

Description	Order number
Special model of the flexible version (LOF 1.13) for filling systems	902509
Special model of the flexible version (LOF 1.13) for filling systems (Ex-Version)	902508
High temperature 0 °C to + 250 °C	902478

# LOF 500



## Order code – LOF 500

### Version

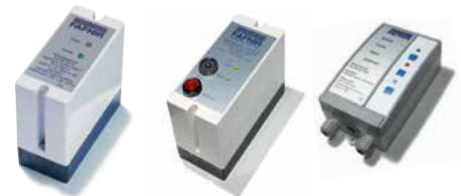
	<b>LOF 500</b> (order code)		-		-	
<b>Options</b>	None	N				
	Option Z	Z				
<b>Function</b>	Overfill prevention device	U				
	Run-dry protection	T				
<b>Auxiliary power</b>		LOF 500 230 V <sub>AC</sub>				230
		LOF 500 115 V <sub>AC</sub>				115
		LOF 500 24 V <sub>DC</sub>				24D

Level Sensors

Level Switches

Overfill Prevention

# NB 220 L



## Order numbers – NB 220 L

Name	Description	Order number
NB 220 QSF L	Overfill prevention device, 230 V <sub>AC</sub>	*
NB 220 QSF L	Overfill prevention device, 24 V <sub>DC</sub> / 24 V <sub>AC</sub>	*
NB 220 QS L	Overfill prevention device, 230 V <sub>AC</sub>	*
NB 220 QS L	Overfill prevention device, 24 V <sub>DC</sub>	*
NB 220 H L	Overfill prevention device, 230 V <sub>AC</sub>	*
NB 220 H L	Overfill prevention device, 24 V <sub>DC</sub> / 24 V <sub>AC</sub>	*
NB 220 QST L	Run-dry protection, 230 V <sub>AC</sub>	*
NB 220 HT L	Run-dry protection, 230 V <sub>AC</sub>	*
NB 220 HT L	Run-dry protection, 24 V <sub>DC</sub> / 24 V <sub>AC</sub>	*

115 V<sub>AC</sub> on request.  
\* On request.

# Typ 76



## Order numbers – 76 A / 76 C / 76 N

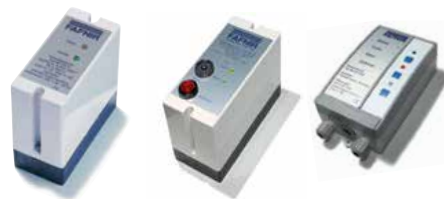
Name	Description	Probe length	Order number
76 A	Standard, G 3/4"	100 mm	904372
	Standard, G 3/4"	200 mm	904389
	Standard, G 3/4"	300 mm	904396
	Standard, G 3/4"	400 mm	904402
	Standard, G 3/4"	500 mm	901388
	Standard, G 3/4"	600 mm	904419
	Standard, G 3/4"	700 mm	904426
	Standard, G 3/4"	800 mm	904433
	Standard, G 3/4"	900 mm	904440
	Standard, G 3/4"	1.000 mm	904457
	Customer-specified length		904365
76 C	Compact: cable length 3 m; G 3/4"		908333
76 N	Stainless steel 316 Ti: for use in Ad Blue		901393

## Order number – 76 A / 76 C / 76 N Sonderausführung

Name	Description	Order number
76 ... H	Additional charge for high temperature version (- 25 °C to + 80 °C)	*

\* On request.

# NB 220



## Order numbers – NB 220

Name	Description	Order number
NB 220 QSF	Overfill prevention device, 230 V <sub>AC</sub>	908400
NB 220 QSF	Overfill prevention device, 24 V <sub>DC</sub> / 24 V <sub>AC</sub>	908508
NB 220 QS	Overfill prevention device, 230 V <sub>AC</sub>	902330
NB 220 QS	Overfill prevention device, 24 V <sub>DC</sub>	904501
NB 220 H	Overfill prevention device, 230 V <sub>AC</sub>	902279
NB 220 H	Overfill prevention device, 24 V <sub>DC</sub> / 24 V <sub>AC</sub>	902293
NB 220 QS T	Run-dry protection, 230 V <sub>AC</sub>	904310
NB 220 H T	Run-dry protection, 230 V <sub>AC</sub>	902309
NB 220 H T	Run-dry protection, 24 V <sub>DC</sub> / 24 V <sub>AC</sub>	902323

115 V<sub>AC</sub> on request.

# 76 A Duo



## Order code – 76 A Duo

### Version

		76 A Duo (order code)					
<b>Process connection</b>	Screw-in unit R 1½"	R1					
	Screw-in unit R 2"	R2					
<b>Temperature range</b>	Normal temperature (-25 °C to + 50 °C)	NT					
	High temperature (-25 °C to + 80 °C)	HT					
<b>Length</b>	Extra charge for probe or fitting length more than 1,000 mm/per 100 mm	Fitting / Probe length 1					
		Fitting / Probe length 2					
<b>Options</b>		None	NN				
		One Fitting point variable	V1				
		Both fitting point variable (only with R 2")	V2				
<b>Protective sleeve</b>	Standard – mechanical protection sleeve						PS
	For strong vapour movements						VM



# 76 A Trio

## Order code – 76 A Trio

### Version

	<b>76 A Trio</b> (order code)		-		-		-		-		-		-	
<b>Process connection</b>	Screw-in unit R 2"	R2												
<b>Temperature range</b>	Normal temperature (- 25 °C to + 50 °C)	NT												
	High temperature (- 25 °C to + 80 °C)	HT												
<b>Length</b> Extra charge for probe or fitting length more than 500 mm/per 100 mm		Fitting/Probe length 1												
			Fitting/Probe length 2											
				Fitting/Probe length 3										
<b>Options</b>							None	NN						
							One Fitting point variable	V1						
<b>Protective sleeve</b>							Standard – mechanical protection sleeve	PS						
							For strong vapour movements	VM						

Level Sensors

Level Switches

Overfill Prevention



# Display



## Order numbers – HPH Ex d

Name	Order number
Pressure-resistant housing HPH Ex d D (with display)	909208
Pressure-resistant housing HPH Ex d (without display)	909213
Display (without Ex-certificate)	909351
Mounting plate for HPH	909315
Module for use the HPH-housing as stand-alone display	909316
Cable gland ATEX Ex d M20 x 1,5	909388



## Order numbers – UM-X

Variant	Descriptions	Order number
UM-S	Standard field display, 230 V <sub>AC</sub>	908046
	Standard field display, 24 V <sub>DC</sub>	908047
UM-O	Approved as overfill prevention device in connection with TORRIX, 230 V <sub>AC</sub>	908044
	Approved as overfill prevention device in connection with TORRIX, 24 V <sub>DC</sub>	908050
UM-Ex	Intrinsically safe sensor circuit (Ex ia), 230 V <sub>AC</sub>	908043
	Intrinsically safe sensor circuit (Ex ia), 24 V <sub>DC</sub>	908049
UM-O Ex	Intrinsically safe sensor circuit (Ex ia) and approved as overfill prevention device in connection with TORRIX, 230 V <sub>AC</sub>	908045
	Intrinsically safe sensor circuit (Ex ia) and approved as overfill prevention device in connection with TORRIX, 24 V <sub>DC</sub>	908048

115 V<sub>AC</sub> and 24 V<sub>AC</sub> on request.

# LOGI-X

Measurement analysis unit for connecting TORRIX SC probes

## Order numbers – LOGI-X

Name	Descriptions	Order number
LOGI-View Touch	LOGI-View Touch; Display in remote housing; with sensor modules for mounting in an electrical cabinet or housing	900113
LOGI-Command GUI	LOGI-Command GUI; Display and sensor modules for mounting in an housing	908383
LOGI-Command Modular	LOGI-Command, modules to mount in existing electrical cabinet	908384
<b>Housing Option</b>		
300 mm x 300 mm	Housing (coated) 300 mm x 300 mm x 175 mm, incl. mounting of the sensor modules	908385
400 mm x 300 mm	Housing (coated) 400 mm x 300 mm x 175 mm, incl. mounting of the sensor modules; With space for an additional LOGI-Module	908386
400 mm x 400 mm	Housing (Stainless Steel) 400 mm x 400 mm x 212 mm, incl. mounting of the sensor modules; with space for up to three additional LOGI-Module	908388
<b>Additional Modules</b>		
VP-1	LOGI Sensor module for 8 additional probes	908389
LOGI-Output	Output-Module with 8 relays outputs	900147
LOGI-Input	Input-Module with 8 digital inputs	900028
Valve Module	Valve connection module 24 V, incl. power supply, requires LOGI-Output	908390

Cost for configuration and installation on request.

# Accessories



## Order number – Collective Acknowledgement Unit Type SAM 8

Name	Descriptions	Order number
Type SAM 8	8 Inputs	907243



## Order numbers – Quittiereinheit Typ QE 200

Name	Descriptions	Order number
Typ QE 200	Extension of the transducer LS 500, NB 220 H, 230 V <sub>AC</sub>	902347
	Extension of the transducer LS 500, NB 220 H, 24 V <sub>DC</sub>	902348



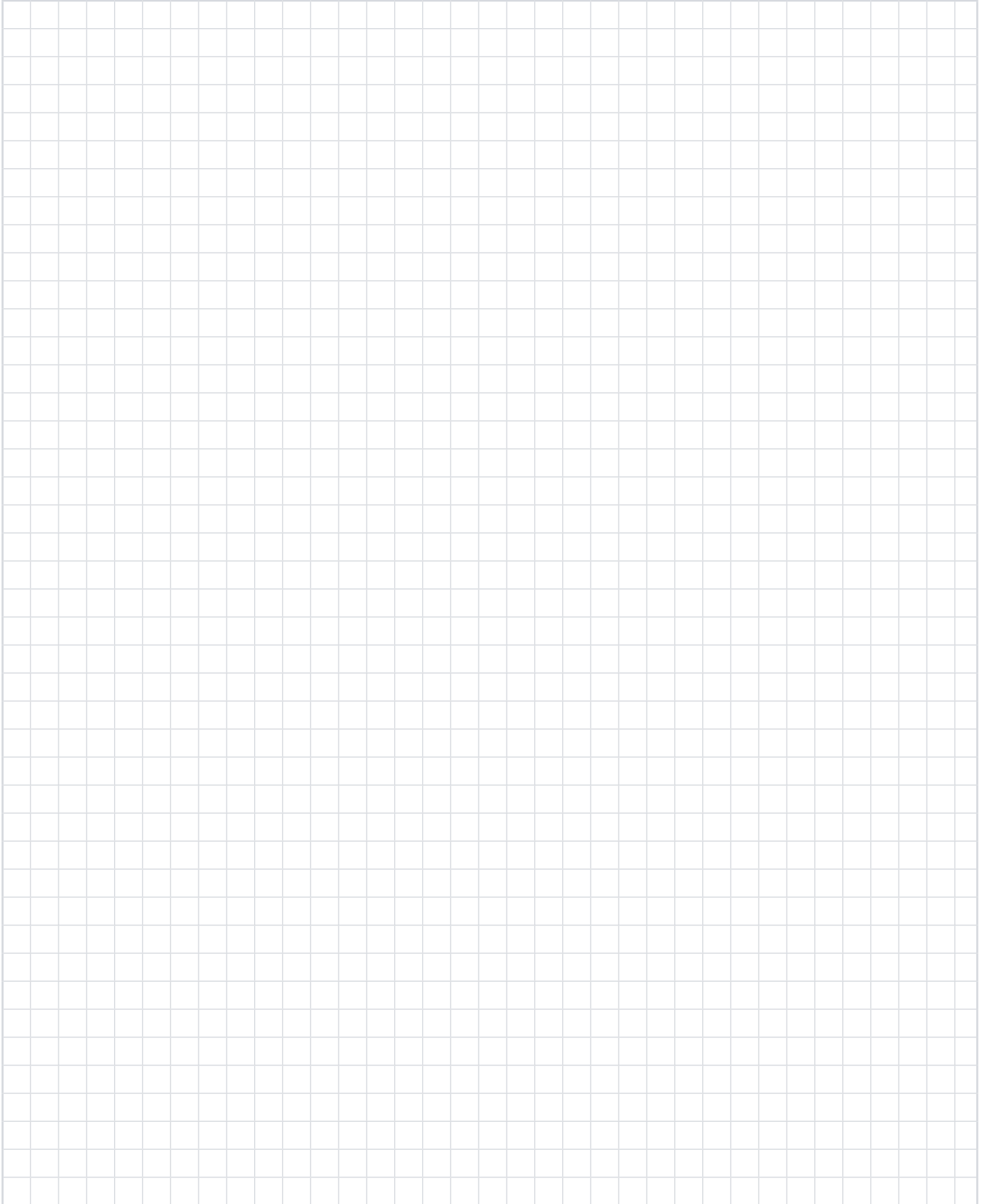
## Order numbers – Miscellaneous

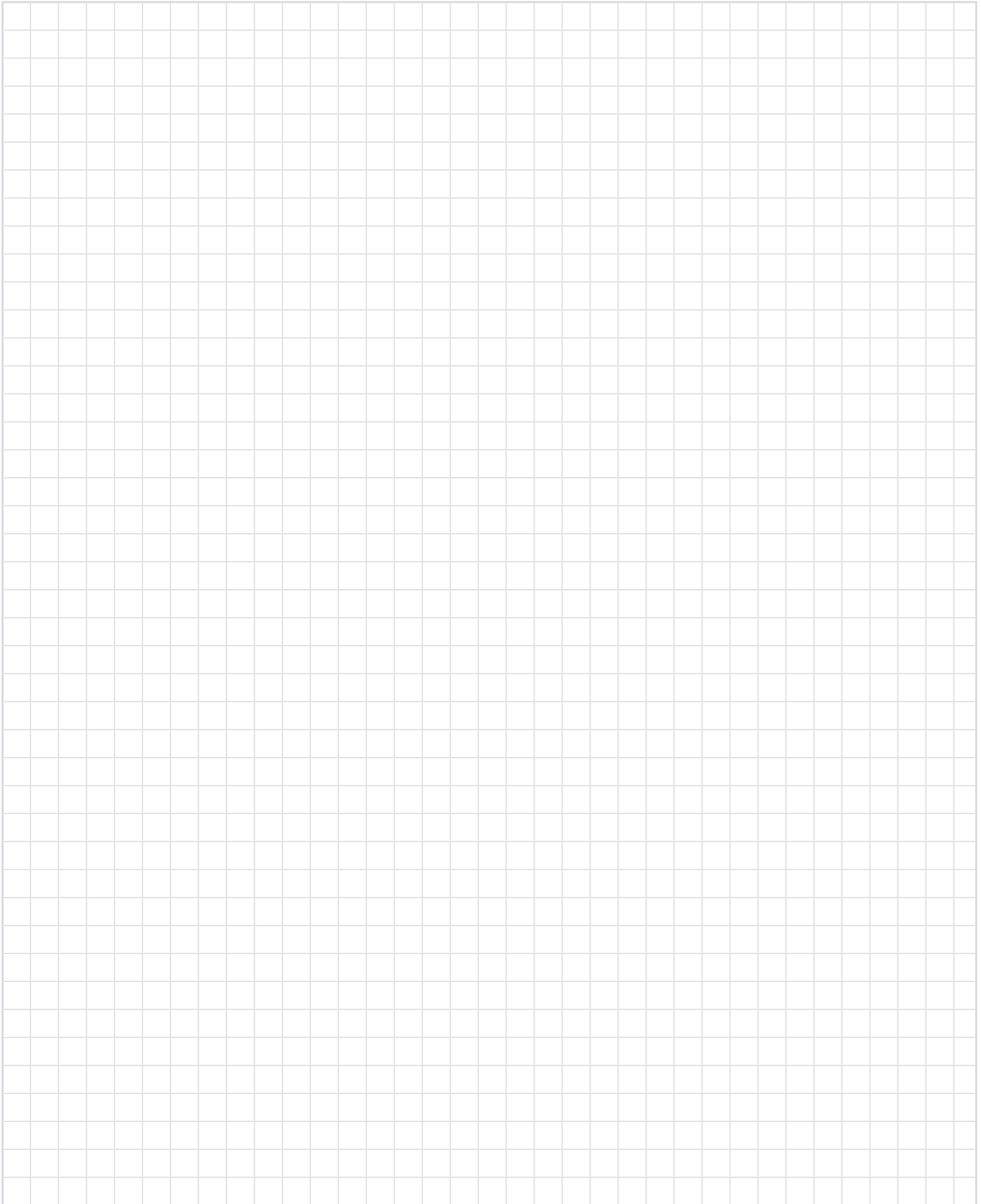
Name	Descriptions	Order number
Wall fitting 907 Z	230 V <sub>AC</sub> , wall mounting for interruption of the filling process (not for use in explosive area)	903719
	24 V <sub>DC</sub> , wall mounting for interruption of the filling process (not for use in explosive area)	903720
Bracket for standard rails	DIN mounting rail brackets for LS 500, NB 220 H, NB 220 QS and QE 200	907465
Type BA 350	Overvoltage protection (2-pole)	903313
Type BA 350 Duo	Overvoltage protection (4-pole)	903314
Counter plug type S28	for connector DD 28	903443
Alarm-Display		909125
Ex repeater/power supply	with one channel (for 4 to 20 mA sensors)	909099
	with two channels (for 4 to 20 mA sensors)	909120

## Order numbers – Acoustic and Optic Alarm Systems



Name	Descriptions	Order number
Horn type HPW 110	Acoustic alarm system, 230 V <sub>AC</sub>	902378
	Acoustic alarm system, 24 V <sub>DC</sub>	902379
Horn type HR	Acoustic and optic alarm system, 230 V <sub>AC</sub>	905294
	Acoustic and optic alarm system, 24 V <sub>DC</sub>	905295
Rotating light type R4	Optic alarm system, 230 V <sub>AC</sub>	902422
	Optic alarm system, 24 V <sub>DC</sub>	902423







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