Dinel

HIGH-FREQUENCY LIMIT LEVEL SENSOR RFLS-35

High-frequency limit level sensor with elimination of buildups and foam on the electrode.

- Designed for reliable limit sensing of the level height of wide-ranging fluids, mashed and pastelike materials.
- Resistant to adhesion of viscous and sticky media.
- Replacement of a vibrating level sensor.
- Unique material type recognition function "Medium window" (the sensor only senses the set medium and does not react to substances with a lower and higher permittivity).
- Direct mounting into tanks, vessels, sumps, pipes or funnels and containers.
- Settings using the magnetic pen.
- High stability at high sensitivity (possible to use for substances with εr ≥ 1.5).



 (ϵ)

The high-frequency level sensor RFLS-35 is designed for industrial use for limit sensing of the level of liguid and paste-like media. The high-frequency level sensor may be a direct replacement of a vibrating level sensor, or of a capacity level sensor in case of more demanding applications. The media may be electrically conductive or non-conductive with any permittivity. It can be installed in metal or plastic tanks, pipes, filling tanks, sumps, etc.

It is mainly designed for mounting into the wall of a tank or pipe, in which the actual detection of the level will take place. The sensor works in the high frequency band, enabling reliable detection of the level of media, and eliminating deposits or foam on the electrode. The sensor suppresses the influence of deposits of viscous media (ketchup, yoghurt, pastes, syrups, jams and jellies, creams, soap) as well as electrically conductive adhesive products (detergents, alkalis, chemicals).

Likewise, it is possible to utilize it to differentiate a specific media from others - the "Medium window" function. E.g. it can differentiate oil from water and air, detect only beer foam and ignore beer and air,etc.

The sensor is made from a stainless steel housing at one end terminated by a sensing electrode, and terminated at the other and by an ending with a status indicator, control elements and electrical connection.

There are next performances available: N - For normal atmospheres, Xi - Explosion proof - intrinsically safe for hazardous (explosive) areas. and <math>XiM - Explosion proof - intrinsically safe for use in mines with methane or flammable dust presence danger (see technical specifications).

VARIANTS OF SENSORS

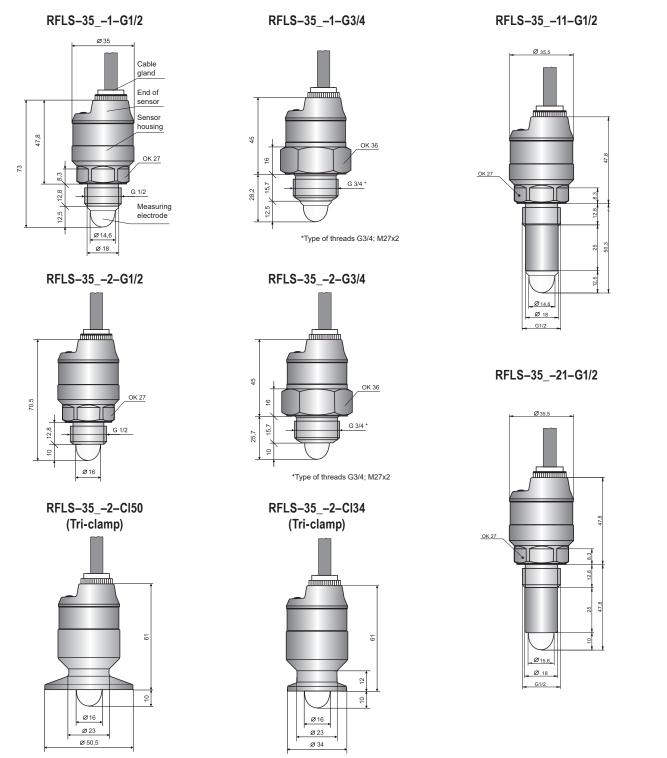
• RFLS-351B	Insulated electrode (PEEK) with sealing O-ring NBR , for sensing various liquid, mashed and paste-like materials, appropriate also for fuel, oil or methanol, use from minimum temperature of -40 °C.
• RFLS-3511B	Insulated electrode (PEEK) extended version with sealing O-ring NBR, for sensing various liquid, mashed and paste-like materials, appropriate also for fuel, oil or methanol, use from minimum temperature of -40 °C
• RFLS-351E	Insulated electrode (PEEK) with sealing O-ring EPDM , for sensing various liquid, mashed and paste-like materials, appropriate also for acids, bases or alcohol, ammonia, acetone, chlorine, from minimum temperature of -40 °C.
• RFLS-3511E	Insulated electrode (PEEK) extended version with sealing O-ring EPDM, for sensing various liquid, mashed and paste-like materials, appropriate also for acids, bases or alcohol, ammonia, acetone, chlorine, from minimum temperature of -40 °C



- RFLS-35_-1V Insulated electrode (PEEK) with sealing O-ring Viton, for sensing various liquid, mashed and paste-like materials, appropriate also for fuel, oil, acids, bases or asphalt, tar, toluene, use from minimum temperature of -20 °C.
- RFLS-35_-11V Insulated electrode (PEEK) extended version with sealing O-ring Viton, for sensing various liquid, mashed and paste-like materials, appropriate also for fuel, oil, acids, bases or asphalt, tar, toluene, use from minimum temperature of -20 °C
- RFLS-35_-2 Insulated electrode (PTFE) without O-ring, for sensing various liquid, mashed and paste-like materials, especially suitable for aggressive liquids, use from minimum temperature of -40 °C.
- RFLS-35_-21 Insulated electrode (PTFE) extended version without O-ring, for sensing various liquid, mashed and paste-like materials, especially suitable for aggressive liquids, use from minimum temperature of -40 °C.

DIMENSIONAL DRAWINGS

Sensormatic



Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Italia Tel. +39 051 6353 511 - www.sensormatic.it

Variant "A" with short stainless steel gland



Variant "B" with plastic threaded cable gland







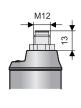
Variant "V" with plastic cable gland with spiral relief - in case of increased mechanical wear on the cable.

> spiral relief 53

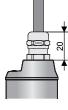


Variant "C" with connector M12

Variant "D" with dustproof cable outlet

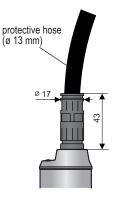








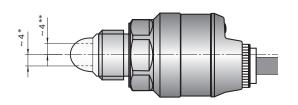
Variant "H" with cable gland for protected hoses - for using in an outdoor area or in area with increased moisture.





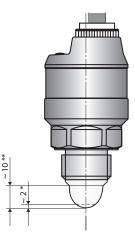
SENSOR SWITCHING LEVELS

horizontal mounting



* Typical switch point position for water (factory setting).
 ** Typical switch point position for oil.

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TECHNICAL SPECIFICATIONS

BASIC TECHNICAL DATA			
Supply voltage (variant RFLS-35N)		7 34 V DC	
Power consumption (variant RFLS-35N)		max. 5 mA DC	
Max. switching current (PNP output)		300 mA	
Residual voltage – ON state		max. 1,5 V	
Coupling capacity (housing - power) / dielectric strength		5nF / 500 V AC (50 Hz)	
Ambient temperature range:		-40 +80 °C	
Protection class	type RFLS-35C	IP 67	
FIOLECIION Class	type RFLS-35A(B,V,H,D)	IP 68	
Cable (versions with cable outlets)	Variant (P,N)	PVC 3 x 0,5 mm ²	
	Variant (Xi, XiM)	PVC 2 x 0,75 mm ²	
Weight (without cable)		cca 0,15kg	

ELECTRICAL PARAMETERS— variant Xi and XiM		
Power supply voltage	8 9 V DC	
Current consumption (disconnected/ connected) - NAMUR	≤1 mA / ≥2,2 mA	
Max. internal values	Ui=12VDC; li=15mA; Pi=45mW; Ci=15nF; Li=10µH	
Cables LC values	typic C < 150 pF/m typic L < 0,8 μH/m	

Used materials			
part of the sensor		standard material *	
Housing		stainless steel W.Nr. 1.4404 (AISI 316L)	
End of sensor		stainless steel W.Nr. 1.4301 (AISI 304)	
Electrode coating	type el. 1, 11 type el. 2, 21	PEEK PTFE	
Sealing O-ring	RFLS-351B, 11B RFLS-351E, 11E RFLS-351V, 11V RFLS-352, 21	NBR EPDM (FPM) Viton –	
Cable gland (variant "A")		stainless steel W.Nr. 1.4571 / NBR	
Cable gland (variant "B", "V", "H")		plastic PA / NBR	
Cable gland (variant "D")		nickel-plated brass / PA / CR / NBR	
Connector M12 (variant "C")		nickel-plated brass / PA	

PROCESS CONNECTION		
type	size	marking
Pipe thread	G 1/2"	G1/2
Pipe thread	G 3/4"	G3/4
Metric thread	M27x2	M27
Jointless connection (Tri-Clamp) *	ø 34 mm ø 50,5 mm	CI34 CI50
* only for type electrode 2		

* only fo	or type	electrode	2
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Туре об оптрит	
Output	Variants
PNP (PC; PO)	Ν
NAMUR (RC; RO)	Xi (XiM)

* Verify chemical compatibility with the media. Upon agreement it is possible to select a different type of material.

PARAMETERS OF FUNCTIONAL SA	AFETY	
variant of sensor	RFLS-35P(R)	RFLS-35NPD
according to standard	EN 61	508 ed.2
Safety function	MIN	I, MAX
SIL		2
Hardware architecture	1oo1 without dia- gnostic	1001 with diagnostic
DC	0 %	99 %
PFH (T _{Proof} = 1 rok) (for variant N)	2,218 * 10-7	2,218 * 10-9
PFH (T _{Proof} = 1 rok) (for variant Xi)	2,238 * 10-7	-
$\lambda_{_{DD}}$ (for variant N)	0 FIT	219,6 FIT
$\lambda_{_{DU}}$ (for variant N)	221,8 FIT	2,2 FIT
$\lambda_{_{DD}}$ (for variant Xi)	0 FIT	-
$\lambda_{_{DU}}$ (for variant Xi)	223,8 FIT	-
$MTTF_{D}$ (for variant N)	514	years
$MTTF_{D}$ (for variant Xi)	510 years	-
valid version FW	v2	v3-diagnostic

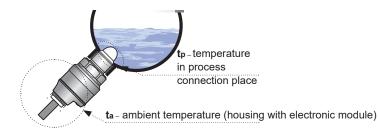
Explanations:
SILSafety integrity level,
DCDiagnostic cover,
PFHAverage frequency of dangerous
failure per hour
T _{Proof} Functional control period of the
device safety function
$\lambda_{_{DD(DU)}}$ Detected (resp. undetected)
dangerous failure rate per hour
$\textit{MTTF}_{\textit{D}}\textit{Mean Time To dangerous Failure}$



Device classification		
Sensor performance	Device classification and their use in atmosphere	according to standard EN
RFLS-35N	Basic performance	-
KFLS-35N	For non-explosive atmosphere	-
RFLS–35Xi	Equipment protection by intrinsic safety "i" for use in potentially explosion atmosphere, la II 1 G Ex ia IIB T5 Ga with intrinsically safe supply units	60079-0, 60079-11
	For use in hazardous area (explosive gas atmosphere), whole sensor zone 0	60079-10-1
RFLS-35XiM	Equipment protection by intrinsic safety "i" for use in potentially explosion atmosphere, S IM1 Ex ia I Ma with intrinsically safe supply units.	60079-0, 60079-11
	For use in the mine area with the occurrence of methane or coal dust	60079-10-1

The device or its part intended for zone 0 can also be used in zone 1 or 2.

TEMPERATURE AND PRESSURE DURABILITY – variant N, Xi and XiM				
design variant	temperature tp	temperature ta	maximum overpressure	temperature tp for ta <50°C and t <1h
RFLS-35N-1B (1E, 11B, 11E)	-40°C +105°C	-40°C +80°C	10 MPa	max. 120 °C
RFLS-35Xi(XiM)-1B (1E)	-40°C +100°C	-40°C +80°C	10 MPa	max. 100 °C
RFLS-35N-1V (11V)	-20°C +105°C	-40°C +80°C	10 MPa	max. 120 °C
RFLS-35Xi(XiM)-1V	-20°C +100°C	-40°C +80°C	10 MPa	max. 100 °C
RFLS-35N-2 (21)	-40°C +105°C	-40°C +80°C	5 MPa to 50°C 2,5 MPa over 50°C	max. 120 °C
RFLS-35Xi(XiM)-2 (21)	-40°C +100°C	-40°C +80°C	5 MPa to 50°C 2,5 MPa over 50°C	max. 100 °C



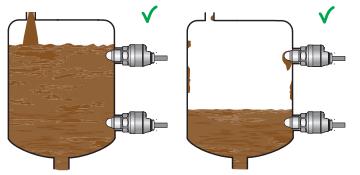
INSTALLATION INSTRUCTIONS

RFLS level sensors can be mounted in horizontal or inclined position into the shell of a container, storage tank or pipe by screwing into the welding flange, or by affixing using a nut. Basic application recommendations are mentioned below.

During assembly into the metal tank or the storage tank, it is not necessary to separately ground the base of the level sensor

In the case of the use for an aggressive medium is necessary to prove the chemical compatibility of used materials of the sensor (Tab. Used materials). This guarantee ceases when the product is chemically damaged.

Thanks to its design, the sensor is appropriate for detection of the level of **viscous and simultaneously electrically conductive media** (yoghurt, jams and jellies, mayonnaise, spreads, liquid soap, creams or pastes). After setting the sensitivity of the given media, it reliably reacts to the presence or absence of a medium level. On the contrary, the sensor does not react to remnants and coatings of viscous media on the measuring electrode.



Side installation of sensors into a tank with viscous medium



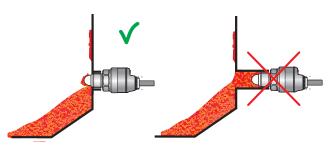
It is recommended to install sensors in a horizontal pipe **inclined from the side.** Upon vertical installation of the sensor in a pipe, pay attention to potential formation of air pockets,

or adhering remnants of liquid at the bottom of the pipe.

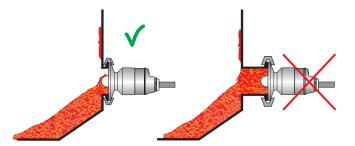


In the case of **side wall mounting**. it is necessary to avoid long fitting tubes, where sensed medium could remain. We recommend mounting the sensor so that the whole measuring electrode is inside the tank.

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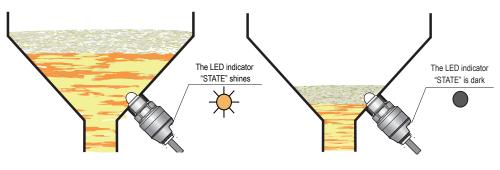
Correct and incorrect installation with a long tube



Correct and incorrect installation with a long tube for process connection with Tri-Clamp

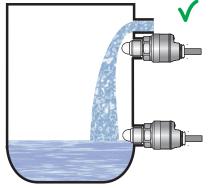
Small Tri-clamp (ø 34 mm), only for liquids with low viscosity.

Installation of the sensor for reliable checking of the level of a liquid with foam on the surface. Sensitivity of the sensor can be set to detect the liquid interface with foam. After a drop in the liquid level, the sensor does not react to coatings of foam on the electrode.



Monitoring the level of foam media

The sensor can be mounted in a tank or at medium inlets. After setting to the level of the given media the sensor does not react to the current of flowing medium.



Option of mounting the sensor in the medium inlet



ELECTRICAL CONNECTION

A sensor with PNP output can be loaded only by resistive or inductive load. The positive pole of the supply voltage (+U) is connected to the brown wire BN or pin connector no.1, the negative pole (0V) is connected to the blue wire BU or pin connector no. 3 and load on the black wire BK or pin connector no. 4. The capacitative loads and low resistance loads (bulb) are evaluated by the sensor as a short circuit.

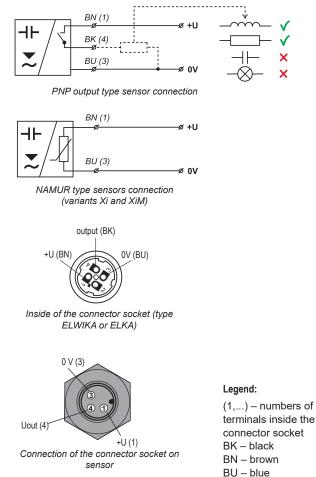
Connection diagrams are listed in Figures right.

Sensors RFLS-35 with type of cable outlet A, B, V, D or H are connected to assessing units permanently connected by PVC cable.

Sensors RFLS-35 with connection method type C are connected to control units by means of a connector socket with compression cable (length 2 or 5m), or by means of dismountable connector socket without cable (see accessories), connector socket is not part of the sensor. In this case the cable is connected to the inside pins of the socket according to Figure right. The recommended diameter of this cable is 4 to 6 mm (the recommended cross-sectional area is 0.5 to 0.75 mm²).

The connection of the sensor to the connecting device is performed using a suitable three wire (variant N) or two wire (variant Xi and XiM) cable. The length of the cable for the Xi and XiM variations must be selected with respect to the maximum permitted parameters (usually inductance and capacity) of the outside intrinsically safe circuit of supply units (NSSU, NDSU, NLCU).

In the event that dismountable connector sockets are used, the outer diameter of the cable is max. 6 mm.



Electrical connection can only be made when de-energized!

The source of the power voltage must comprise of a stabilised safe low power source with galvanic separation. In the event that a switchmode power supply is used, it is essential that its construction effectively suppresses common mode interference on the secondary side. In the event that the switch-mode power supply is equipped with a PE safety terminal, it must be unconditionally grounded! Spark-safe devices type (RFLS–35Xi and RFLS-35XiM) must be powered from a spark-safe power source meeting the above-mentioned requirements.

In the event that the level meater (sensor) is installed in an outdoor environment at a distance greater than 20 m from the outdoor switchboard, or from an enclosed building, it is necessary to supplement the electrical cable leading to the level meater (sensor) with suitable overvoltage protection.

With regard to possible occurrence of electrostatic charge on non-conductive parts of the sensor for explosive areas (RFLS–35Xi and RFLS–35XiM, sensors must be grounded. It will be done using conductive tank, conductive lid of tank, or by the auxiliary plate electrode PDE-27.

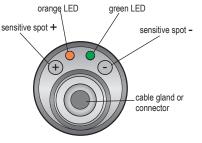
In the event of strong ambient electromagnetic interference, paralleling of conductors with power distribution, or for distribution to distances over 30 m, we recommend grounding the level meter (see above) and using a shielded cable.

CONTROL ELEMENTS

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Settings are performed by placing the magnetic pen on the sensitive spot marked "+" or "-" located at the end of the sensor in two modes:

- Quick settings the user does not know precisely to what medium the sensor should be set, he only wants to put the sensor into operation (usually upon receiving it) and check to see if the sensor is generally functional
- 2. Basic settings the user has the medium available and can perform on the sensor its flooding and drainage
- 3. Medium window settings the user has the medium available and can perform on the sensor its flooding and drainage



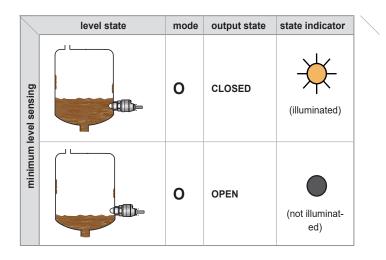
Top view of sensor control elements



FUNCTION AND STATUS INDICATION

LED indicator	colour	function
"RUN"	green	Measuring function indication flashing – (approx. 0.4 s) – correct function of level detection dark – incorrect installation or malfunction. alternating flashing of the green and orange LED – error in settings simultaneous shine of green and orange LED – when applying the mag. pen, when the setting is confirmed
"STATE"	orange	Settings indication permanent shine – the sensor is closed dark – the sensor is open 3 short flashes – settings confirmed alternating flashing of the green and orange LED – error in settings simultaneous shine of green and orange LED – when applying the mag. pen, when the setting is confirmed periodic extiction (0,1 s) in closed mode - diagnosed function error periodic lighting (0,1 s) in open mode - diagnosed function error

*) Function accessible for variant PD (electronic with diagnostic).



	level state	mode	output state	state indicator
maximum level sensing		С	CLOSED	(illuminated)
maximum		С	OPEN	(not illuminat- ed)

For safety reasons, we recommend using the setting of the mode "O" for min. level sensing (the sensor is closed upon immersion). It is for failure safety reasons – eventual failure of sensor behaves similarly as an exceeding of the limit state. Analogically, for the max. level it is recommended to set the mode "C" (the sensor is open upon immersion).



S-35 PERFORMANCE N basic performance for non-explosive area, can't be selected for the type of output P XI ② for hazardous area (explosive gas atmosphere), can't be selected for the type of output P XIM ③ for mine area with the occurrence of methane or coal dust, can't be selected for the type of output P XIM ④ for mine area with the occurrence of methane or coal dust, can't be selected for the type of output P IB insulated electrode (PEEK, O-ring NDR), can't be selected for process connection CI34, CI50 11B insulated electrode (PEEK, O-ring EPDM), ean't be selected for process connection CI34, CI50 11E insulated electrode (PEEK, O-ring EPDM) - extended version, can't be selected for process connection CI34, CI50 11V insulated electrode (PEEK, O-ring Viton) - axtended version, can't be selected for process contor tion G%, M27, CI34, CI50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process contor tion G%, M27, CI34, CI50 11V insulated electrode (PTEF, without O-ring) atmost deversion, can't be selected for process connection G%, M27, CI34, CI50 11V insulated electrode (PTEF, without O-ring) - extended version, can't be selected for process connection G%, M27, CI34, CI50 atmost deversion, can't be selected for process conton to G%, M27, CI34, CI50 121 insulated electrode (PTEF, without O-ring) - exte	S-35 PERFORMANCE N basic performance for non-explosive area, can't be selected for the type of output P Xi © for mine area with the occurrence of methane or coal dust, can't be selected for the type of output P XIM © for mine area with the occurrence of methane or coal dust, can't be selected for the type of output P XIM © for mine area with the occurrence of methane or coal dust, can't be selected for the type of output P IB insulated electrode (PEEK, O-ring NBR), can't be selected for process connection CI34, CI50 1B insulated electrode (PEEK, O-ring PDM), can't be selected for process connection CI34, CI50 1E insulated electrode (PEEK, O-ring PDM), can't be selected for process connection CI34, CI50 11E insulated electrode (PEEK, O-ring Viton). can't be selected for process connection CI34, CI50 11V insulated electrode (PEEK, O-ring Viton). can't be selected for process connection CI34, CI50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process connection G'34, M27, CI34, CI50 12 insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process connection G'34, CI50, G'34, CI50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process connection G'34, M27, CI34, CI50 21 insulated electrode (PTFE, without O-ring) - exte	DUCT						
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11E insulated electrode (PEEK, O-ring EPDM) - extended version, can't be selected for process concion Cl34, Cl50 1V insulated electrode (PEEK, O-ring Viton), can't be selected for process connection Cl34, Cl50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process contor Gl34, Cl50 2 insulated electrode (PTFE, without O-ring) 11 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G ³ 4, M27, Cl34, Cl50 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G ³ 4, M27, Cl34, Cl50 PROCESS CONNECTION G1/2 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G1/2 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G1/2 pipe thread G ³ / ² G1/2 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G1/2 pipe thread G ³ / ² G3/4 pipe thread G ³ / ² G1/4 pipe thread G ³ / ² <td>11E insulated electrode (PEEK, O-ring EPDM) - extended version, can't be selected for process concion CI34, CI50 11V insulated electrode (PEEK, O-ring Viton), can't be selected for process connection CI34, CI50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process contor for G*A, M27, CI34, CI50 2 insulated electrode (PTFE, without O-ring) 11sulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G*A, M27, CI34, CI50 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G*A, M27, CI34, CI50 PROCESS CONNECTION G1/2 pipe thread G*/" G3/4 pipe thread G*/", can't be selected for 11B, 11E, 11V a 21 M27 metric thread G*/", can't be selected only for 2 CI50 Tri-clamp (# 50,5 mm), can be selected only for 2 CI50 Tri-clamp (0 = 0.0 Ector), for variant N P PNP (open collector) P PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for var</td> <th></th> <th></th> <th>connection</th> <td>G¾, M2</td> <td>127, Cl34, Cl50</td>	11E insulated electrode (PEEK, O-ring EPDM) - extended version, can't be selected for process concion CI34, CI50 11V insulated electrode (PEEK, O-ring Viton), can't be selected for process connection CI34, CI50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process contor for G*A, M27, CI34, CI50 2 insulated electrode (PTFE, without O-ring) 11sulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G*A, M27, CI34, CI50 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G*A, M27, CI34, CI50 PROCESS CONNECTION G1/2 pipe thread G*/" G3/4 pipe thread G*/", can't be selected for 11B, 11E, 11V a 21 M27 metric thread G*/", can't be selected only for 2 CI50 Tri-clamp (# 50,5 mm), can be selected only for 2 CI50 Tri-clamp (0 = 0.0 Ector), for variant N P PNP (open collector) P PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for variant N PD PNP (open collector) with diagnostic, for var			connection	G¾, M2	127, Cl34, Cl50		
11E ction G%, M27, Cl34, Cl50 1V insulated electrode (PEEK, O-ring Viton), can't be selected for process control of G%, M27, Cl34, Cl50 2 insulated electrode (PTFE, without O-ring) 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process control of G%, M27, Cl34, Cl50 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process control of G%, M27, Cl34, Cl50 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process control of G%, M27, Cl34, Cl50 PROCESS CONNECTION G1/2 pipe thread G%" G3/4 pipe thread G%" G3/4 pipe thread G%" G3/4 pipe thread G%" G3/4 pipe thread G%" Cl50 Tri-clamp (ø 50,5 mm), can be selected only for 2 Cl50 Tri-clamp (ø 50,5 mm), can be selected only for 2 VPE OF OUTPUT N N NPN (open collector P PNP (open collector), for variant N PD PNP (open collector) with diagnostic, for variant N R NAMUR (for variants Xi a XiM) ELECTRICAL CONNECTION A stainless steel compression gland (+ cable length) Conn	11E ction G¾, M27, Cl34, Cl50 1V insulated electrode (PEEK, O-ring Viton), can't be selected for process connection Cl34, Cl50 11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process connection G¾, M27, Cl34, Cl50 2 insulated electrode (PTFE, without O-ring) insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G¾, M27, Cl34, Cl50 21 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process connection G¾, M27, Cl34, Cl50 PROCESS CONNECTION G1/2 pipe thread G½" G3/4 pipe thread G½" G3/4 pipe thread G½" Cl50 Tri-clamp (ø 34 mm), can be selected for 11B, 11E, 11V a 21 Cl50 Tri-clamp (ø 50,5 mm), can be selected only for 2 Cl50 Tri-clamp (ø 50,5 mm), can be selected only for 2 V N NPN (open collector) P PNP (open collector), for variant N PD PNP (open collector), for variant N PD PNP (open collector), for variant N R NAMUR (for variants Xi a XiM) ELECTRICAL CONNECTION A stainless steel compression gland (+ cable length) C connector (socket not included with sensor, re		1E					
11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process control G ⁴ , M27, Cl34, Cl50 2 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process of nnection G ⁴ , M27, Cl34, Cl50 111 Gl42 pipe thread G ⁴ /" G3/4 pipe thread G ⁴ /" G3/6 <td< td=""><td>11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process continue tion G%, M27, Cl34, Cl50 2 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process content of G%, M27, Cl34, Cl50 111 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process content of G%, M27, Cl34, Cl50 111 Gl34 pipe thread G%", can't be selected for 11B, 11E, 11V a 21 112 Gl34 Tri-clamp (a 50,5 mm), can be selected only for 2 113 Tri-clamp (a 50,5 mm), can be selected only for 2 114 N NPN (open collector P PNP (open collector), for variant N PD PNP (open collector) with diagnostic, for variant N R NAMUR (for variants Xi a XiM) Image: Electrical connector (socket not included with sensor, recommended type - 4 accessories) D nickel-plated brass threaded cable gland (+ cable length) B plastic threaded cable gland (+ cable length) CABLE K K cable length in m </td><th></th><th></th><th>ction G¾, I</th><td>M27, CI3</td><td>134, CI50</td></td<>	11V insulated electrode (PEEK, O-ring Viton) - extended version, can't be selected for process continue tion G%, M27, Cl34, Cl50 2 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) 111 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process content of G%, M27, Cl34, Cl50 111 insulated electrode (PTFE, without O-ring) - extended version, can't be selected for process content of G%, M27, Cl34, Cl50 111 Gl34 pipe thread G%", can't be selected for 11B, 11E, 11V a 21 112 Gl34 Tri-clamp (a 50,5 mm), can be selected only for 2 113 Tri-clamp (a 50,5 mm), can be selected only for 2 114 N NPN (open collector P PNP (open collector), for variant N PD PNP (open collector) with diagnostic, for variant N R NAMUR (for variants Xi a XiM) Image: Electrical connector (socket not included with sensor, recommended type - 4 accessories) D nickel-plated brass threaded cable gland (+ cable length) B plastic threaded cable gland (+ cable length) CABLE K K cable length in m			ction G¾, I	M27, CI3	134, CI50		
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Accessories

- 1 pcs. magnetic pen MP-8
- 1 pcs. seal (asbestos free)
- standard included in the sensor price optional for a surcharge (see cat. sh. of accessories)
 - cable (over the standard length 2m)
 - connector socket (type ELWIKA or ELKA)
 - standard steel welding flange or stainless steel welding flangeprotective hose (for cable outlet H)
 - stainless steel fixing nut
 - various types of seals (PTFE,AI,etc.) •



The level sensor is equipped with protection against electric shock on the electrode, reverse polarity, output current overload, short circuit and against current overload on output.

Protection against dangerous contact is provided by low safety voltage according to 33 2000-4-41. Electromagnetic compatibility is provided by conformity with standards EN 55011/B, EN 61000-4-2 to -6 and -8.

Explosion proof RFLS–35Xi (XiM) is provided by conformity with standards EN 60079-0, EN 60079-11, EN 50303. Explosion proof RFLS–27Xi (XiM) is verified FTZÚ – AO 210 Ostrava – Radvanice: FTZÚ 16 ATEX 0139X.

A declaration of conformity was issued for this device in the wording of Act No. 90/2016 Coll., as amended. Supplied electrical equipment matches the requirements of valid European directives for safety and electromagnetic compatibility.

Special conditions for safe use of variants RFLS-35Xi and RFLS-35XiM

Sensors RFLS-35Xi and RFLS-35XiM are intended for connection to approved intrinsically safe supply units (insulating transducers) with galvanic separation. In the event that devices without galvanic separation (Zener barriers) are used, it is necessary to balance the potential between the sensor, resp. water level meter and the grounding barrier location.

The limit output parameters of intrinsically safe supply units (insulating transducers) must correspond to the limit input parameters of the sensor, resp. level meter. When assessing intrinsically safety of circuits, it is necessary to also take into consideration the parameters of the connected cable (namely its induction and capacity).

Design RFLS-35Xi can be used in zone 0.

Design RFLS–35XiM it is necessary to observe that temperature of any surface of apparatus, when coal dust can from a layer, do not exceed 100°C.

FUNCTIONAL SAFETY

RFLS-35 high-frequency level sensors meet the requirements of the safety integrity level according to the EN 61508 series of standards. The sensors are designed for liquid level detection applications with higher safety requirements:

- Overfill protection mode
- Anti-idle protection mode

The sensors meet the functional safety requirements of SIL 2 in both modes.

The sensor electronics have a 1001 architecture (single channel without P(R) diagnostics or single channel with PD diagnostics depending on the output variant).

It is recommended to perform a functional safety function check of the sensor once a year.

USE, MANIPULATION AND MAINTENANCE

The level meter does not require any personnel for its operation. Maintenance of this equipment consists in verification of integrity of the level meter and of the supply cable.

Activity in traffic:

- If the sensor is connected to an automatic control system or an emergency alarm system, its settings must not be interfered with during operation.
- If it is necessary to change the sensor settings, the entire system must be temporarily shut down and the process kept in a safe state by other means and measures.
- The signalling of fault conditions is described in the chapters.
- Signalling conditions or Signalling sensor conditions with diagnostics.

Action in the event of a fault:

- In the event of detected faults or fault signals, the entire system must be shut down and the process held in a safe state by other means and measures.
- If, as a result of a fault, sensor replacement is required, the manufacturer must be notified (including a description of the fault).



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