CHAVE DE NIVEL TIPO CAPACITIVA PARA SÓLIDOS SERIE NSC

- Length of probe: 3000 mm (rod), 15 m (cable)
- t_{max}: -20...+80°C
- p_{max}: -0.1...+0.5 bar
- Process connection: G 1 male, Adapter G 1 ¼ male, G1 ½ male, welding-sleeve, circular flange
- Contact max. 250 V_{AC}, 1A
- Suitable for ATEX applications

Description

The KOBOLD level monitor devices model NSC are used for the monitoring of minimum and maximum levels in silos and depots. They are working on the capacitive principle and can be supplied in two different designs. They are suitable for various installation conditions.

The level monitoring device NSC-R is supplied with a rigid stainless steel probe with a PTFE coating. This model is mostly used for monitoring the maximum level. For small silos and low bulk densities the short version can also be installed on the side for controlling of the minimum level.

The level monitor device NSC-C consists of a stainless steel probe body, which is connected to the connection box by means of a steel cable coated with polypropylene. The cable can be shortened by the customer, making an adaptation to changing application conditions very easy. This type is usually used to control the maximum level, but also for the minimum in case of low bulk densities.

There is a nonsensitive section close to the mounting thread to avoid false alarms in case of deposits. For adaptation to the kind of media and its density or the shape of the silo, the sensitivity can be adjusted via a DIP-switch or a potentiometer.

Advantages

- No mechanically moving parts, very little wear
- Easy installation
- Pluggable evaluation module
- Various special lengths
- Adjustable sensitivity
- Setting as minimum or maximum security

Application areas

- Animal feed
- Sands and gravel
- Cement
- Flour
- Mineral products
- Food

Technical Details

Measuring principle:	capacitive
Immersion length:	265...3000 mm (NSC-R) (shorter versions on request) maximum 15 m (NSC-C)
Medium temperature:	max -20...+80°C
Ambient temperature:	-20...+60°C
Max. pressure:	-0.1...+0.5 bar
Media DC-value:	Er = min. 1.5

Materials	
Housing:	Polycarbonate, Aluminium with ATEX
Connection:	stainless steel 1.4305
Probe:	NSC-R: stainless steel with PTFE-coating 1.4305
	NSC-C: stainless steel probe, steel cable with PP-coating
	isolation piece: polypropylene
Process connection:	G 1 male thread
Adapter:	thread G 1¼ andG1½
	circular flange Ø 110 mm, 200 mm
	weld-in sleeve outside-Ø 40 mm
Mounting position:	vertical (NSC-C)
	vertical/inclined (NSC-R)
Supply voltage:	18...36 VDC, 24 VAC, 110 VAC,
	230 VAC, 50/60 Hz
Power input:	1 VA
Electr. connection:	via 1 (2) cable gland M20
Contact:	relay output adjustable sensitivity
Electrical switching values:	max. 250 VAC, 1 A
Protection:	IP65
ATEX marking:	II 1/2 D(EExia IIA) T 85°C IP 65

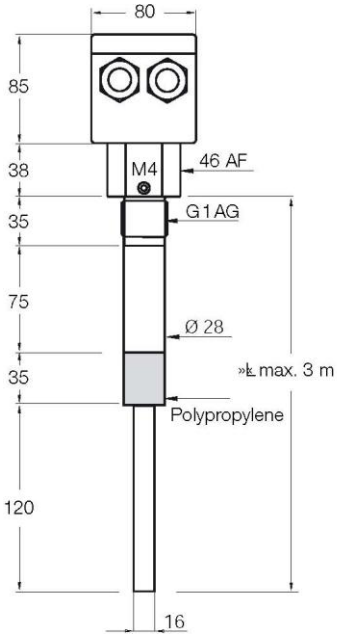
Order Details (Examplel: NSC-R 20 G6 00 0)

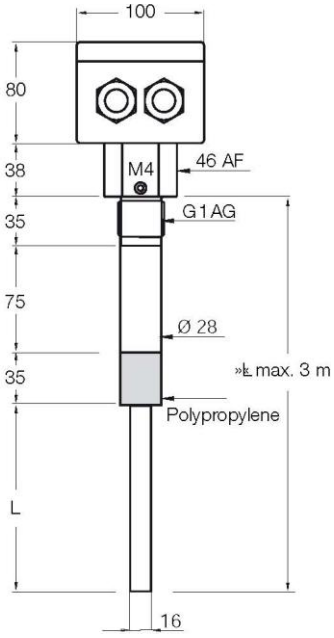
Model	Version*	Probe material	Mechanical connection	ATEX	Supply
NSC	R = rigide probe C = probe with steel cable	20 = stainless steel 1.4305	G6 = G 1 AG	00 = without 0E = ATEX	0 = 230 VAC 4 = 110 VAC 2 = 24 VAC 3 = 18...36 VDC

* Please specify length for specific application »L« in writing

Dimensions

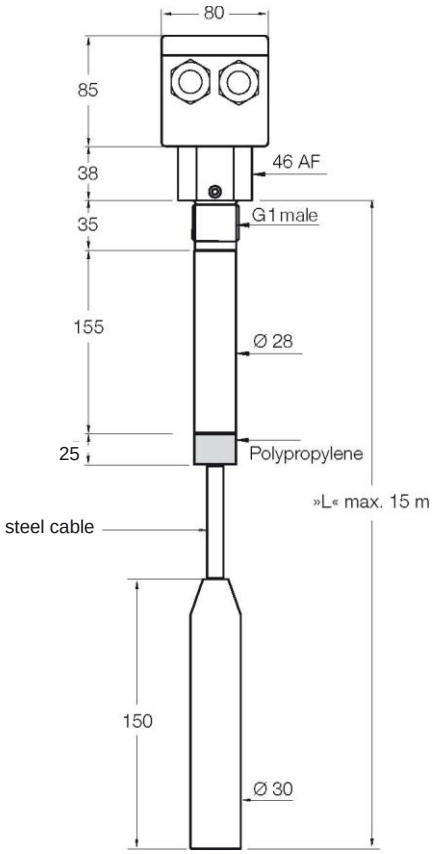
NSC-R NSC-R ATEX

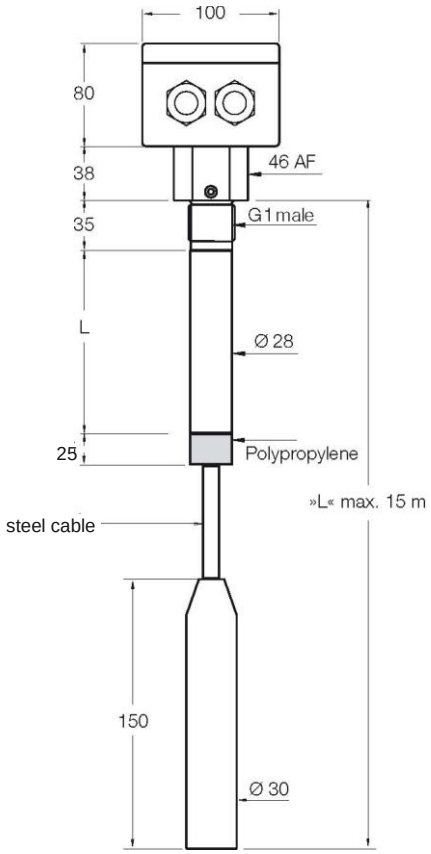




Dimensions

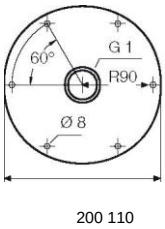
NSC-C NSC-C ATEX





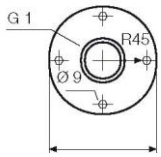
Spare parts/Accessories

Flange type: F2

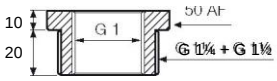


200 110

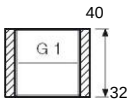
Flange type: F1



Thread adapter G 1¼ and G 1½



Welding sleeve



Spare parts/Accessories Model NMZ for Level Monitor NSC

Model	Design	Adapter type	Specials
NMZ	A = installation adapter	G7 = stainless steel thread adapter for G 1¼ thread G8 = stainless steel thread adapter for G 1½ thread F1 = st. steel circular flange for thread, Ø 110 mm F2 = st. steel circular flange for thread, Ø 200 mm S6 = st. steel welding sleeve, external Ø 40 m	0 = without Y = version acc. to description