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### 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:	2653000 mm (NSC-R) (shorter versions on request) maximum 15 m (NSC-C)
Medium temperature:	max20+80°C
Ambient temperature:	-20+60°C
Max. pressure:	-0.1+0.5 bar
Media DC-value:	<b>ε</b> <sub>r</sub> = min. 1.5
<b>Materials</b> Housing:	Polycarbonate, Aluminium with ATEX
Connection:	stainless steel 1.4305
Sonde:	NSC-R: stainless steel with PTFE-coating 1.4305
	NSC-C: stainless steel probe, steel cable with PP-coating isolation piece: polypropylene
Process connection:	G1 male thread
Adapter:	thread G1¼ and G1½ 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:	1836 V <sub>DC</sub> , 24 V <sub>AC</sub> , 110 V <sub>AC</sub> , 230 V <sub>AC</sub> , 50/60 Hz
Power input:	1 VA
Electr. connection:	via 1 (2) cable gland M20x1,5
Contact:	relay output adjustable sensitivity
Electrical switching values:	max. 250 V <sub>AC</sub> , 1 A
Protection:	IP 65
ATEX marking:	€ II 2/1 ExtD (iaD)iaD A21/20 IP65 T85°C Ta: -20°C/+60°C

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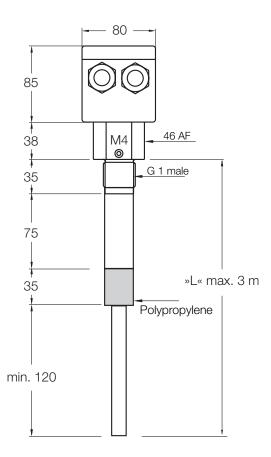
# Order Details (Example: NSC-R 20 G6 00 0)

Model	Version*	Probe material	Mechanical connection	ATEX	Supply
NSC	<ul><li><b>R</b> = rigide probe</li><li><b>C</b> = probe with steel cable</li></ul>	<b>20</b> = stainless steel 1.4305	<b>G6</b> = G 1 male	00 = ohne 0E = ATEX	$0 = 230 V_{AC}$ $4 = 110 V_{AC}$ $2 = 24 V_{AC}$ $3 = 1836 V_{DC}$

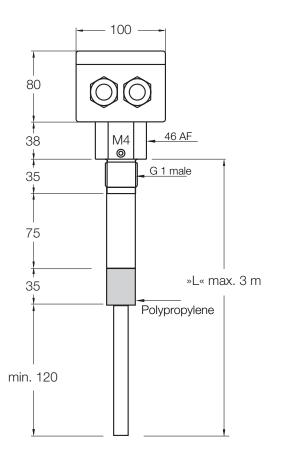
 $^{\ast}$  Please specify length for specific application  $_{\ast}L_{\ast}$  in writing.

#### Dimensions [mm]

# NSC-R

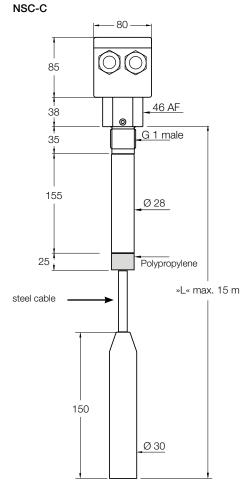


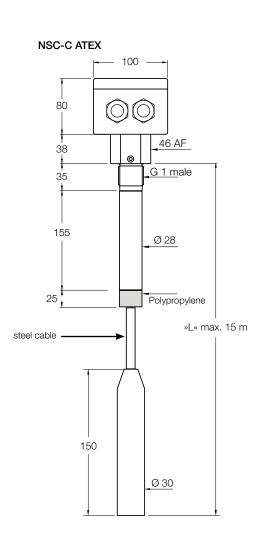
## NSC-R ATEX



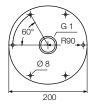


Dimensions [mm]

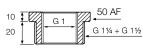




Spare parts and AccessoriesFlange type: F2Flange type: F1



Thread adapter G1¼ and G1½



Welding	sleeve
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40 G 1 32

# Spare parts/Accessories Model NMZ for Level Monitor NSC

Model	Design	Adapter type	Specials
NMZ	<b>A</b> = 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 according to description

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