



NTR small immersion probes

**Controlling devices with
magnetically operated reed contact,
for signalling or regulation
of liquid levels**



Jola Spezi schalter GmbH & Co. KG
Klostergartenstr. 11 • 67466 Lambrecht (Germany)
Tel. +49 6325 188-01 • Fax +49 6325 6396
contact@jola-info.de • www.jola-info.de

The units described in this documentation may only be installed, connected, started up, serviced and replaced by suitably qualified personnel!

Subject to deviations from the diagrams and technical data.

The details in this brochure are product specification descriptions and do not constitute assured properties in the legal sense.

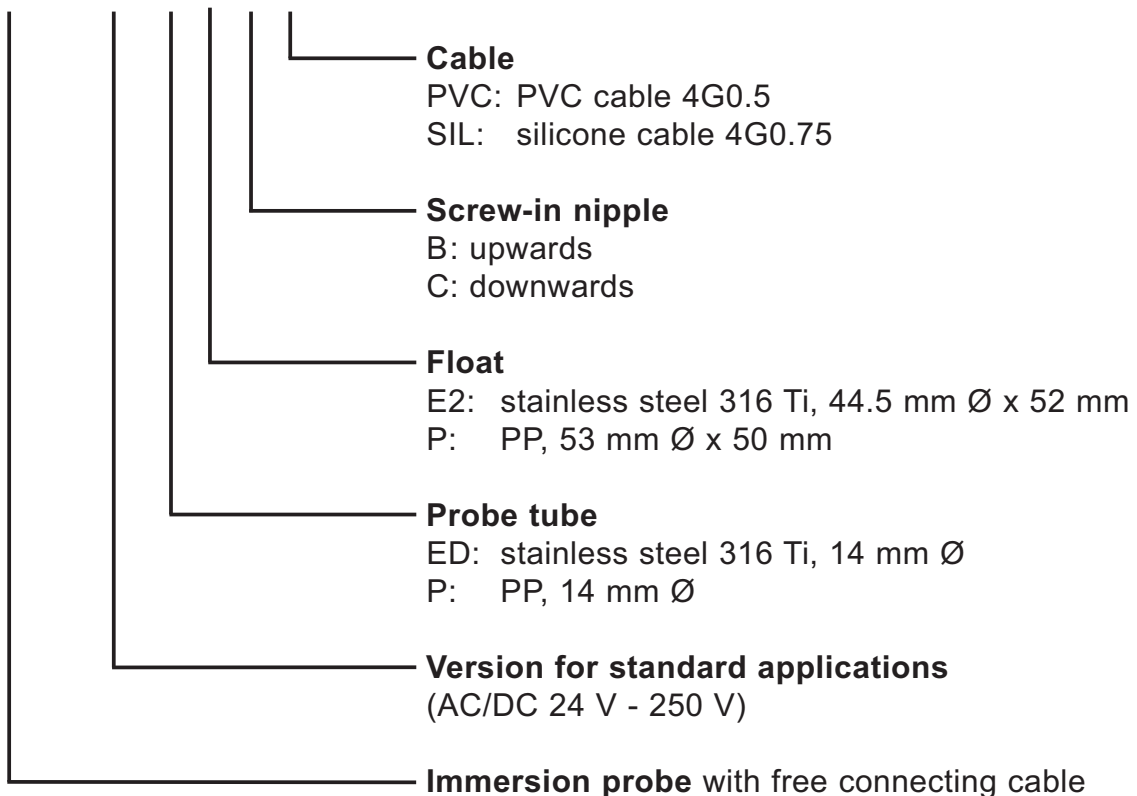


NTR small immersion probes

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Types	Probe tube		Float		Screw-in nipple	
	Material	Out. Ø	Material	Outer dimensions		
NTR/S3/ED/E2/B/PVC	stainless steel 316 Ti	14 mm	stainless steel 316 Ti	44.5 mm Ø x 52 mm	G $\frac{1}{2}$ upwards	3-3-3
NTR/S3/ED/E2/B/SIL						
NTR/S3/ED/E2/C/PVC					G $\frac{1}{2}$ downwards	3-3-5
NTR/S3/ED/E2/C/SIL						
NTR/S3/P/P/B/PVC	PP	14 mm	PP	53 mm Ø x 50 mm	G $\frac{1}{2}$ upwards	3-3-7
NTR/S3/P/P/C/PVC					G1 downwards	
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Order reference

NTR/S3/././././.





NTR/S3/ED/E2/B/...

small immersion probes with

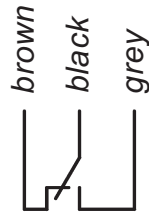
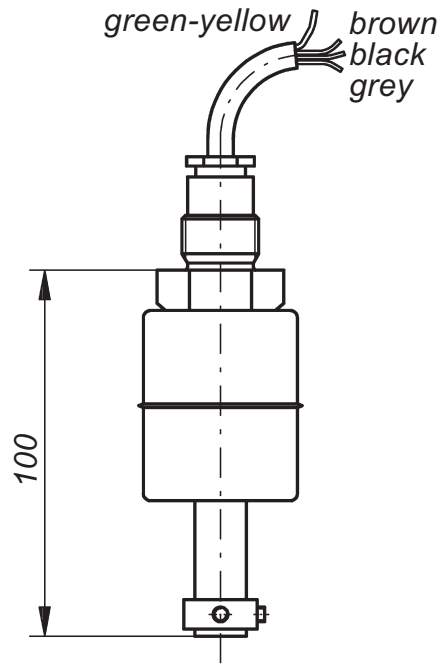
- probe tube made of stainless steel
- float made of stainless steel

Models	NTR/S3/ED/E2/B/...
Application Switching voltage Switching current Switching capacity	standard applications AC/DC 24 V - 250 V AC 100 mA - 2 A (0.4 A) max. 100 VA

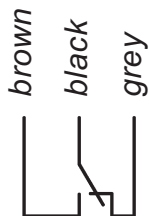
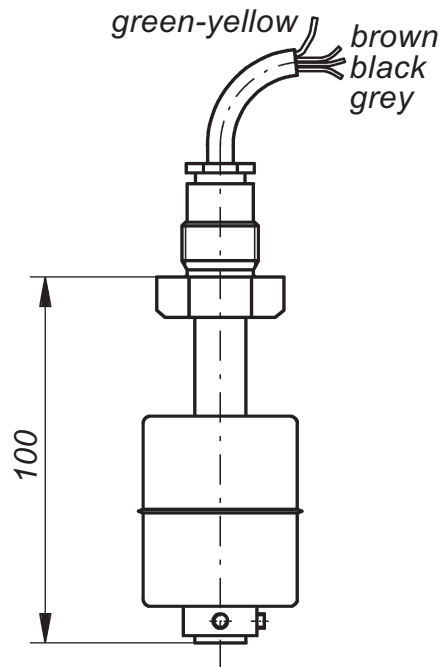
Technical data	NTR/S3/ED/E2/B/PVC with G $\frac{1}{2}$ nipple – upwards	NTR/S3/ED/E2/B/SIL with G $\frac{1}{2}$ nipple – upwards
Probe tube: • material • diameter • length	stainless steel 316 Ti 14 mm 100 mm, measured from the nipple sealing surface, other length on request	
Screw-in nipple	G $\frac{1}{2}$ upwards	
Float	stainless steel 316 Ti, 44.5 mm \varnothing x 52 mm	
Float suitable for use in media with a specific gravity	≥ 0.95 g/cm 3	
Cable entry	nickel-plated brass, protection class IP54	
Connecting cable	PVC, 4G0.5 mm 2	silicone, 4G0.75 mm 2
Length of connecting cable	3 m, other cable length on request	
Mounting orientation	vertical	
Temperature range	0°C to + 60°C	– 20°C to + 100°C
Pressure resistance at + 20°C	max. 12 bar, higher pressure resistance on request	
Contact	reed contact: potential-free changeover contact (OC)	
Min. distances to be observed (based on liquids with a specific gravity of 1 g/cm 3): • from the nipple sealing surface to the upper contact • from the lower contact to to the end of the probe tube	approx. 50 mm approx. 50 mm	
Option	G $\frac{1}{2}$ counter nut made of stainless steel 316 Ti	



NTR/S3/ED/E2/B/PVC



Contact position with full container



Contact position with empty container



NTR/S3/ED/E2/B/SIL



NTR/S3/ED/E2/C/...

small immersion probes with

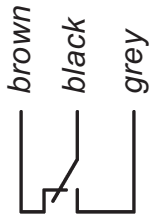
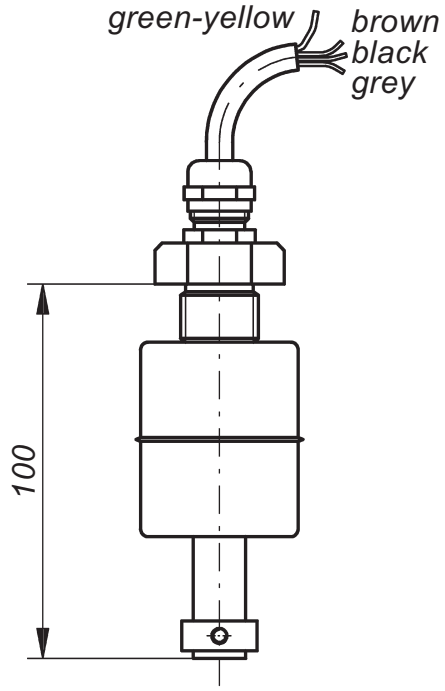
- probe tube made of stainless steel
- float made of stainless steel

Models	NTR/S3/ED/E2/C/...
Application Switching voltage Switching current Switching capacity	standard applications AC/DC 24 V - 250 V AC 100 mA - 2 A (0.4 A) max. 100 VA

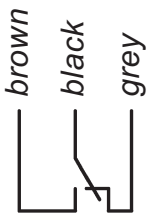
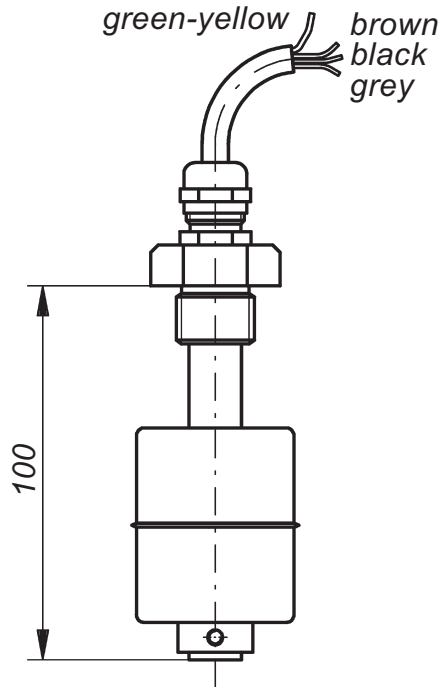
Technical data	NTR/S3/ED/E2/C/PVC with G $\frac{1}{2}$ nipple – downwards	NTR/S3/ED/E2/C/SIL with G $\frac{1}{2}$ nipple – downwards
Probe tube: • material • diameter • length	stainless steel 316 Ti 14 mm 100 mm, measured from the nipple sealing surface, other length on request	
Screw-in nipple	G $\frac{1}{2}$ downwards	
Float	stainless steel 316 Ti, 44.5 mm Ø x 52 mm	
Float suitable for use in media with a specific gravity	≥ 0.95 g/cm ³	
Cable entry	nickel-plated brass, protection class IP54	
Connecting cable	PVC, 4G0.5 mm ²	silicone, 4G0.75 mm ²
Length of connecting cable	3 m, other cable length on request	
Mounting orientation	vertical	
Temperature range	0°C to + 60°C	– 20°C to + 100°C
Pressure resistance at + 20°C	max. 12 bar, higher pressure resistance on request	
Contact	reed contact: potential-free changeover contact (OC)	
Min. distances to be observed (based on liquids with a specific gravity of 1 g/cm ³): • from the nipple sealing surface to the upper contact • from the lower contact to to the end of the probe tube	approx. 50 mm approx. 50 mm	
Option	G $\frac{1}{2}$ counter nut made of stainless steel 316 Ti	



NTR/S3/ED/E2/C/PVC



Contact position with full container



Contact position with empty container



NTR/S3/ED/E2/C/SIL



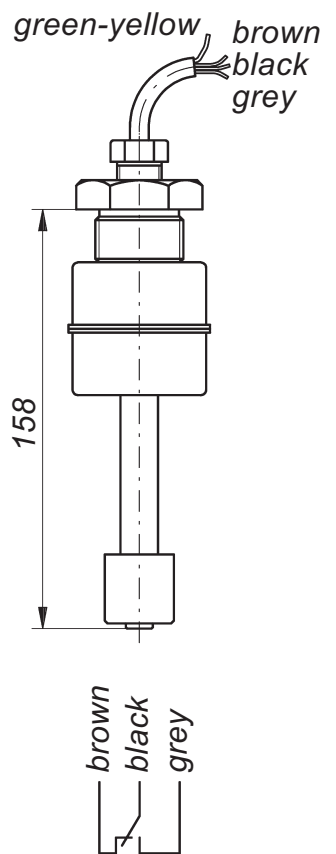
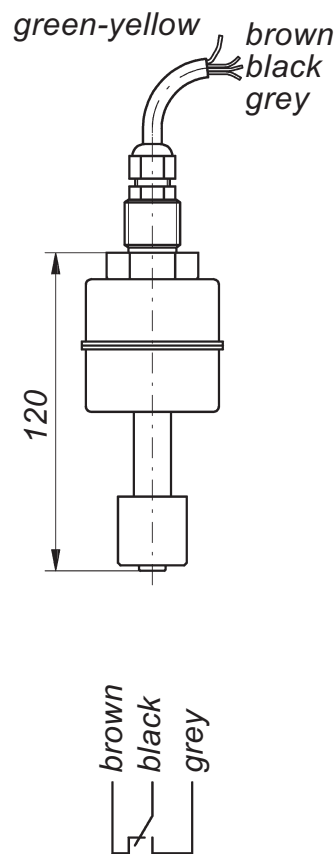
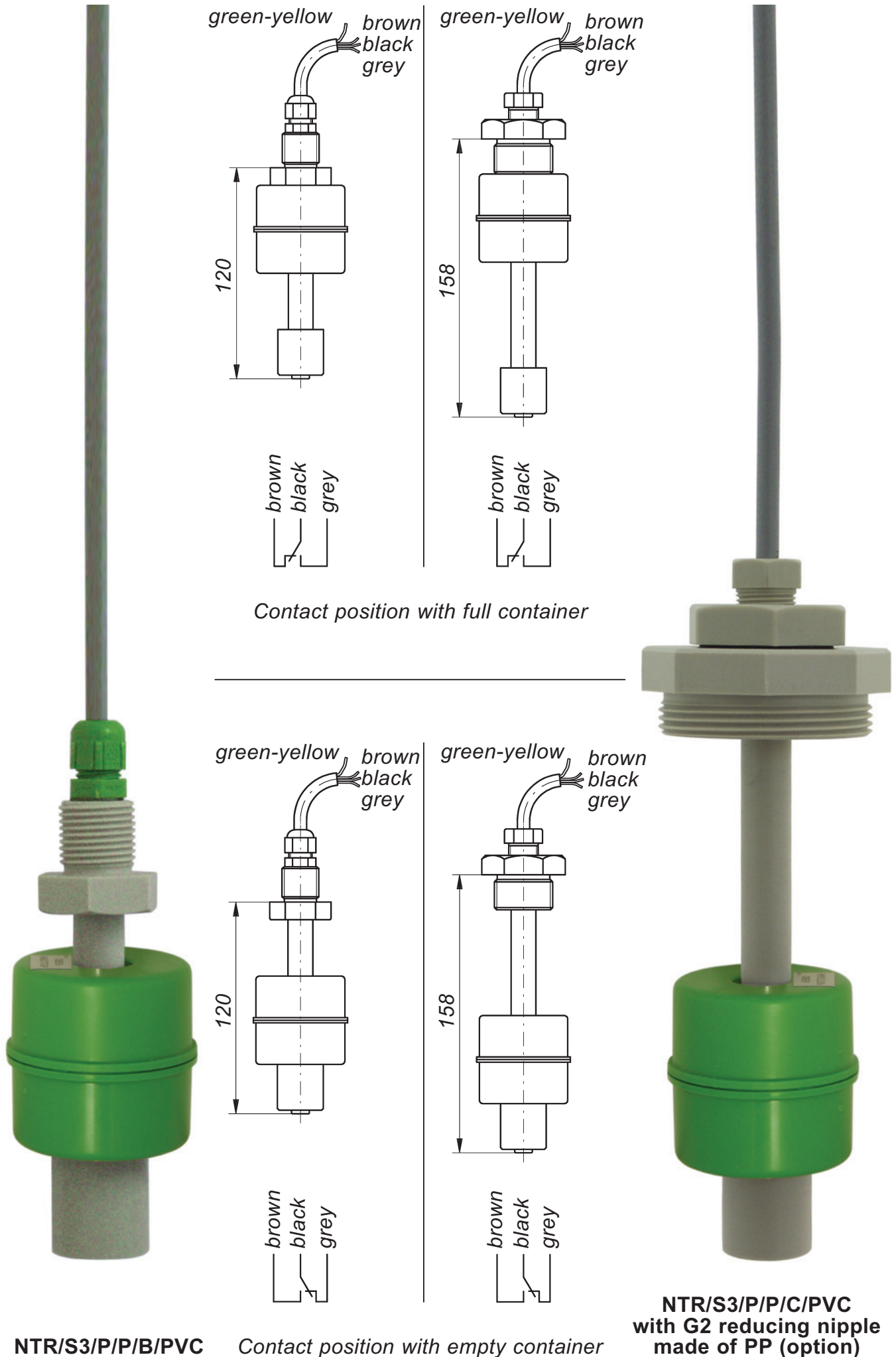
NTR/S3/P/P/...

small immersion probes with

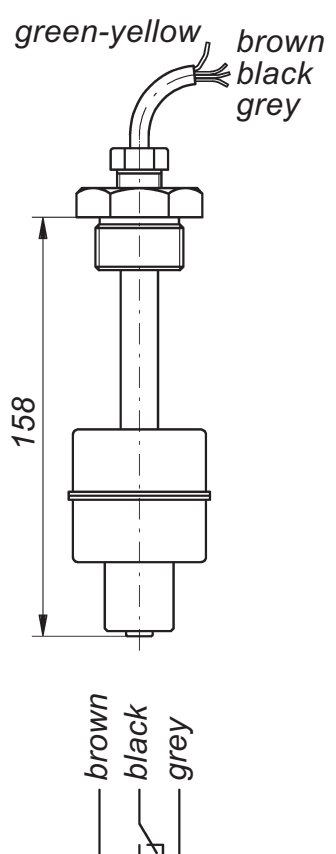
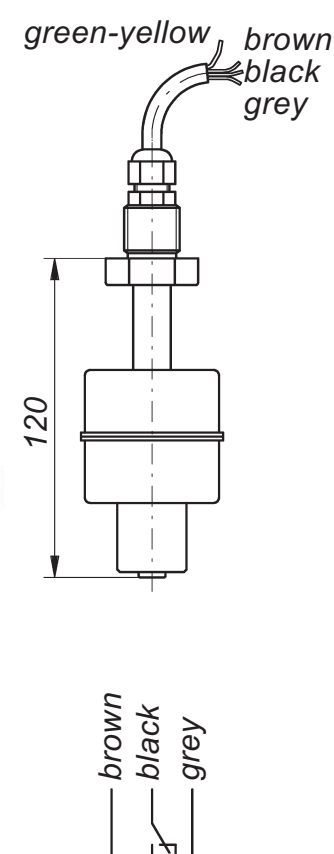
- probe tube made of PP
- float made of PP

Models	NTR/S3/P/P/...
Application Switching voltage Switching current Switching capacity	standard applications AC/DC 24 V - 250 V AC 100 mA - 2 A (0.4 A) max. 100 VA

Technical data	NTR/S3/P/P/B/PVC with G $\frac{1}{2}$ nipple – upwards	NTR/S3/P/P/C/PVC with G1 nipple – downwards
Probe tube: • material • diameter • length	PP 14 mm measured from the nipple sealing surface • <u>without</u> reducing nipple: 120 mm, approx. 158 mm, other length on request • <u>with</u> reducing nipple: — 150 mm, other length on request	
Screw-in nipple	G $\frac{1}{2}$ upwards	G1 downwards
Float	PP, 53 mm Ø x 50 mm	
Float suitable for use in media with a specific gravity	≥ 0.80 g/cm ³	
Cable entry	PP, protection class IP54	
Connecting cable	PVC, 4G0.5 mm ²	
Length of connecting cable	3 m, other cable length on request	
Mounting orientation	vertical	
Temperature range	0°C to + 60°C	
Pressure resistance at + 20°C	max. 2 bar	
Contact	reed contact: potential-free changeover contact (OC)	
Min. distances to be observed (based on liquids with a specific gravity of 1 g/cm ³): • from the nipple sealing surface to the upper contact • from the lower contact to to the end of the probe tube	approx. 60 mm approx. 60 mm	approx. 98 (90) mm approx. 60 mm
Option	G $\frac{1}{2}$ counter nut made of PP	G2 reducing nipple made of PP



Contact position with full container



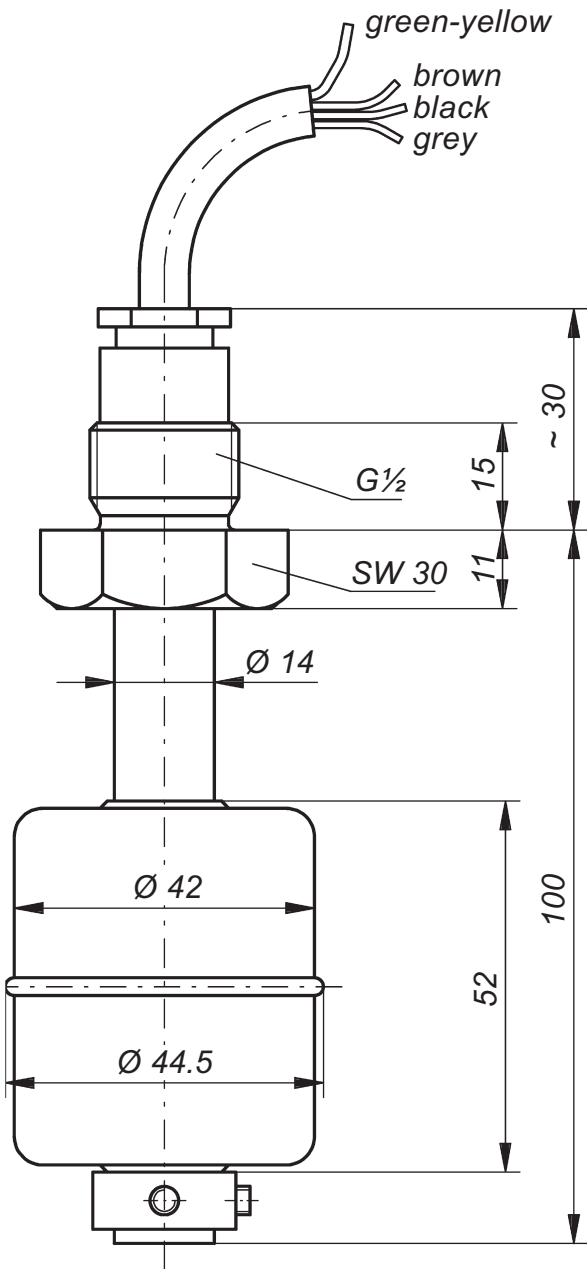
Contact position with empty container

NTR/S3/P/P/B/PVC

NTR/S3/P/P/C/PVC
with G2 reducing nipple
made of PP (option)

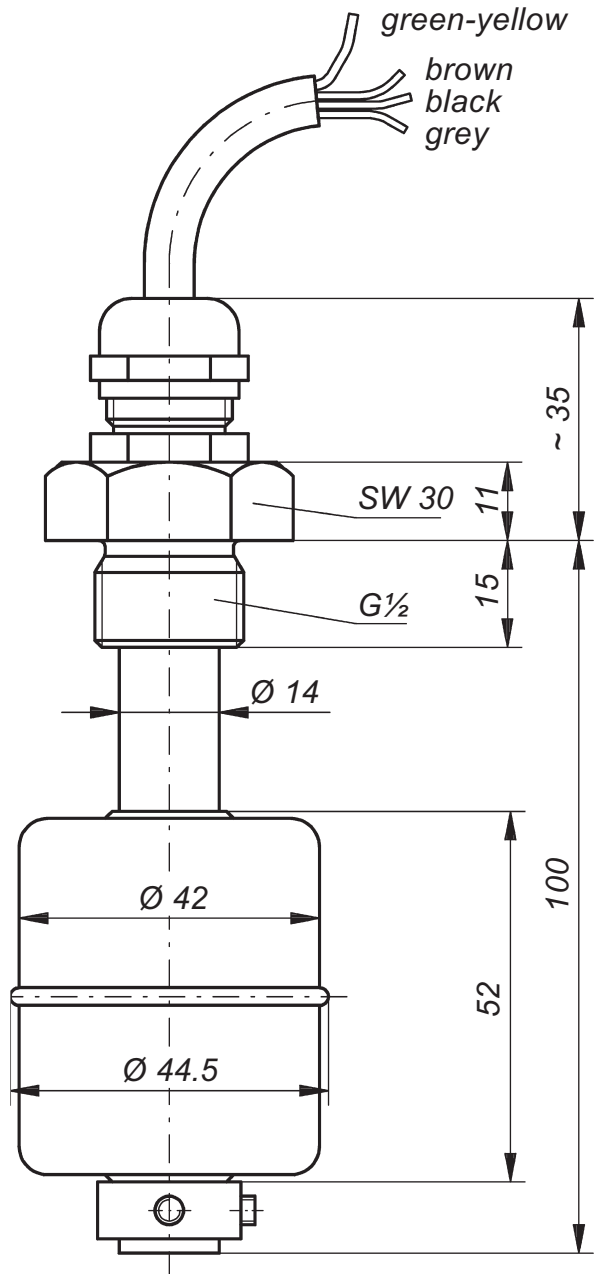
Dimensional drawings

NTR/S3/ED/E2/B/...

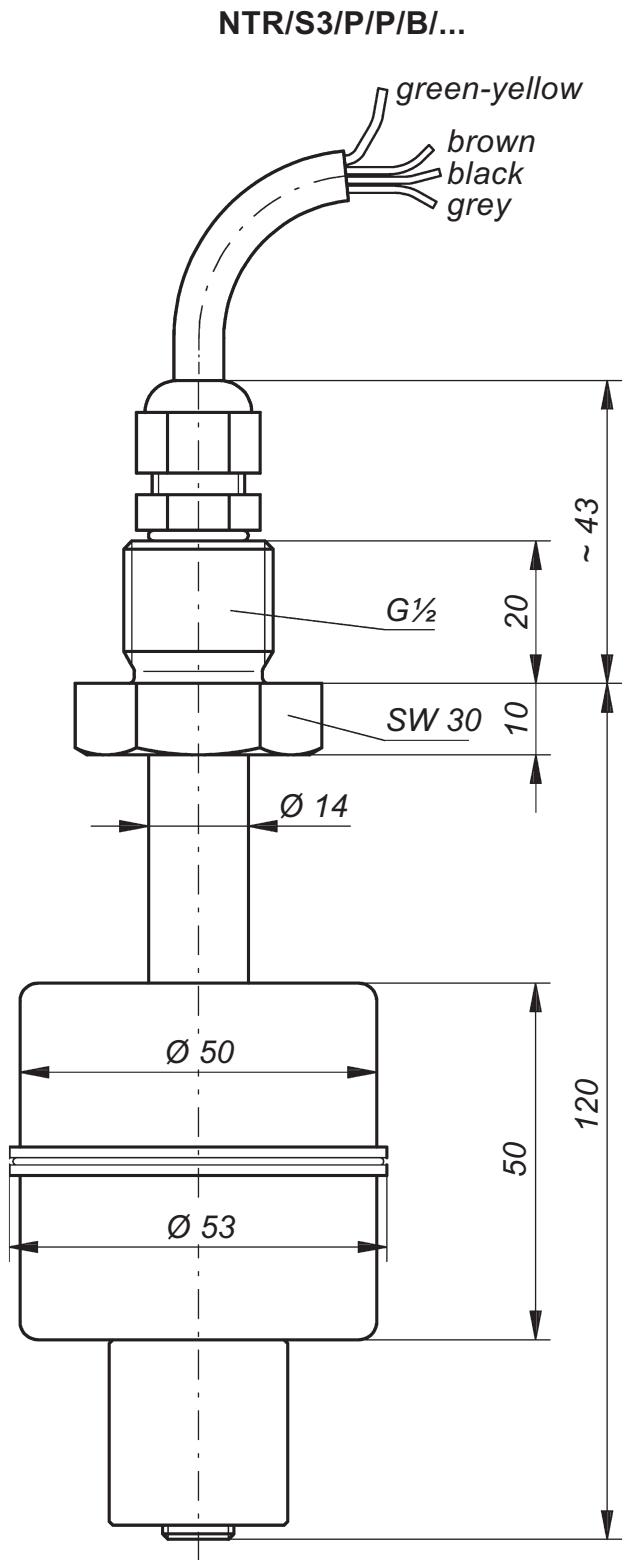


Dimensions in mm

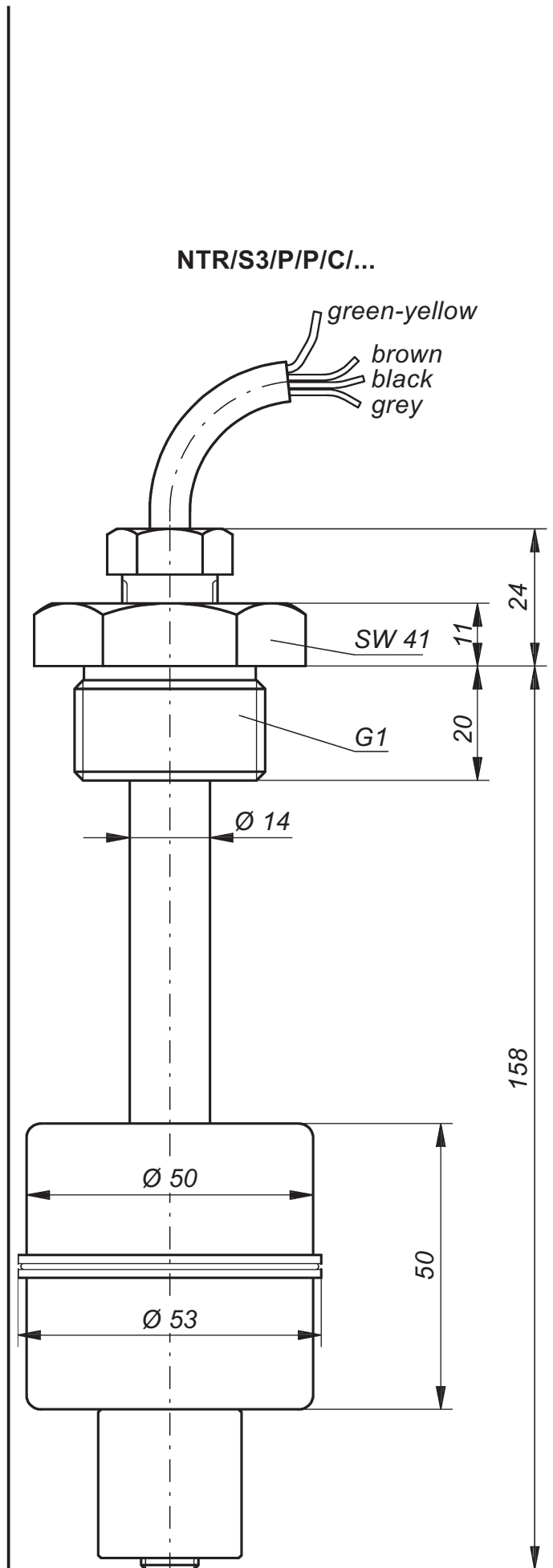
NTR/S3/ED/E2/C/...



Dimensional drawings



Dimensions in mm



Other versions on request:

- angled version for mounting from the side
- NTR/S1/... version for light current applications

Models	NTR/S1/...
Application Switching voltage Switching current Switching capacity	light current applications AC/DC 1 V - 42 V AC 1 mA - 500 mA max. 20 VA