

Level switch NS 1/GFK-MS (...VA)



High system reliability and low maintenance costs are important factors for the operation of modern fluid power and lubrication systems. Thus the electrical control of liquid levels has become an important standard for these systems. BÜHLER level switches Type NS 1/GFK-MS are very favorable solution for these requirements. The employed materials (fibre reinforced plastics, hard-PU and brass) have good mechanical properties and are compatible with the fluids in use. Bistable reed contacts with high contact performance are attached to the flexible mounting bar inside the contact tube. The shortest distance between two contacts is 80 mm. Hole spacings of 10 mm enable the arrangement of contacts in heights of 10 mm steps if the system needs unforeseen adjustments. This device also gives the opportunity to change the switching function of the contacts. Of course these manipulations can be performed at any time without having to disassemble the entire unit.

- **level- and temperature control**
- **adjustable level contacts**
- **bistable level contacts = only one float**
- **float with good buoyancy**
- **electrical connector standard**
- **easy installation**
- **maintenance free**

technical data

type	NS 1/GFK-MS	NS 1/GFK-MS-VA
max. operating pressure	1 bar	1 bar
max. oper. temperature	80 °C	120 °C
spec. gravity fluid	min. 0,8 kg/dm ³	

material		
switch tube	brass	brass
flange	GFK	GFK
float	hard PU (SK 601)	1.4571 (SK 221)

level contacts	K6	W7
function	*NC / NO	change over
min. distance of contacts	80 mm	80 mm
max. operating voltage	230 V	230 V
max. current	1 A	1 A
contact load	50 VA	40 VA
part-no.	1850999	1849999

* NC=normally closed / NO=normally open, all indications at **empty reservoir**

temperature contacts

max. operating voltage	230 V AC
max. current	2 A
max. contact load	100 VA
hysteresis	15 K ± 5 K

		NC*	part-no.	NO*	part-no.
switch point	50 °C	TKÖ 50	1841899	TKS 50	1866999
	60 °C	TKÖ 60	1841999	TKS 60	1842999
	70 °C	TKÖ 70	1844999	TKS 70	1845999

other settings upon request

* NC=normally open / NO=normally closed, all indications at **raising temperature**

temperature sensor

type	PT 100	BTS	supplies
tolerance	± 0,8 °C	± 1,4 °C	O-ring
part-no.	1120012	1854999	ø60x2,5
			1251000

connectors

	M3	S6	C6F	C7
other connectors upon request	3 pol. + PE DIN 43650	6 pol. + PE DIN 43651-	6 pol. + PE DIN 46651-	7 pol. + PE DIN 46652
protection class	IP65	IP65	IP65	IP65
cable gland	PG11	PG11	PG11	PG11
max. no. of contacts level-/temperature-contacts or	- -	3 x K6 1 x W7	3 x K6 1 x W7	4 x K6 2 x W7
level only or	2 x K6 1 x W7	5 x K6 2 x W7	5 x K6 2 x W7	6 x K6 3 x W7
max. current	230 V AC/DC	230 V AC/DC	230 V AC/DC	230 V AC/DC

order information

part-no. of basic version, **without** contacts

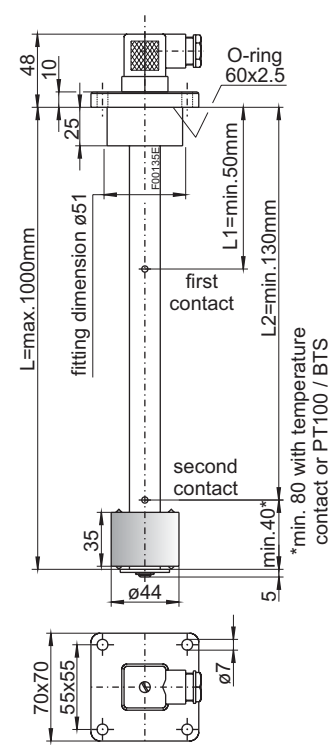
with connector		M3	S6	C6F	C7	
L = 350 mm	NS 1/GFK-MS	1004399	1004499	1004599	1004699	
L = 500 mm	NS 1/GFK-MS	1005199	1005299	1005399	1005499	
L = variable	NS 1/GFK-MS	1001999	1039999	1002999	1040999	-L=...mm
L = 350 mm	NS 1/GFK-MS-VA	1041099	1041199	1041299	1041399	
L = 500 mm	NS 1/GFK-MS-VA	1041499	1041599	1041699	1041799	
L = variable	NS 1/GFK-MS-VA	1040199	1040299	1040399	1040499	-L=...mm

order example:

you need :Version NS 1/GFK-MS, connector S6, length L= 500 mm, two level contacts,
first contact 100 mm NC, second contact 450 mm NO

you order: part-no. 1005299 NS 1/GFK-MS, 2 x contacts K8 (1893999) L1=100 NC, L2 = 450 NO

NS 1/GFK-MS



NS 1/GFK-MS-VA

