- any physical units can be displayed
- adjustable limits and hysteresis
- extreme value memory
- freely convertible and scalable 4..20mA output
- trend and digital displays
- super-bright signalling LED

PRINCIPLE

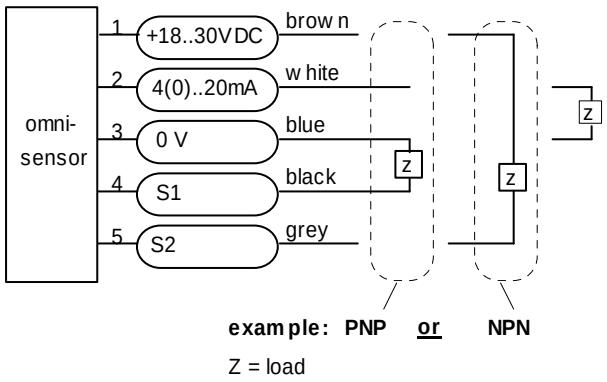
A magnet-equipped float triggers a chain of reed switches inside the tube, connected to resistors like a potentiometer.
Please take all additional data from the omni-sensor-family 51.1.omni and data sheet 51.1.omni2.

TECHNICAL DATA

lenght, resolution and operating pressure	see dimensions
operating temperature	0..70°C (with goose-neck max.105°C)
storage temperature	-20..80°C

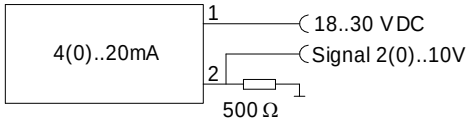
supply voltage	18..30 VDC
power consumption	<1 W
output	4(0)..20mA, 2(0)..10V across 500 Ohm resistor to 0V.
switching values S1 and S2	PNP or NPN selectable, 300mA load in sum max., programmable as min. or max. value, short-circuit proof, reverse-polarity proof
hysteresis	adjustable, position of hysteresis depends on min or max.
display	graphical LCD display extended temperature range -20..70°C, 32x16 pixels, back-lit, shows value and units, LED signalling lamp with simultaneous message in display.
connection	at locking plug M 12x1, 5-pole
protection class	IP67
materials medium contact	omni-LC-S brass and spansil omni-LC-K stainless steel 1.4571
materials elecronic housing	housing stainless steel 1.4305 glass tempered mineral glass magnet cobalt samarium ring POM

TERMINAL ASSIGNMENT



The switchpoints are changing to PNP or NPN depending to your interface automaticly.

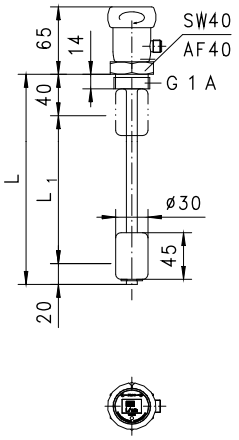
Signal output with 2(0)..10V
Sample:



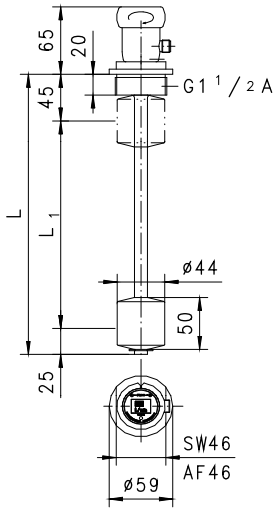
DIMENSIONS

	G	Type	PN bar	liquid density g/cm³	resolution mm	L mm	L1 mm
brass	G1 A	omni-LC-S45HM0250	20	≥0.34	10	250	190
		omni-LC-S45HM0500	20	≥0.34	10	500	440
		omni-LC-S45HM0750	20	≥0.34	10	750	690
		omni-LC-S45HM1000	20	≥0.34	10	1000	940
	G1 1/2 A	omni-LC-S44HM1000	20	≥0.44	20	1000	930
		omni-LC-S44HM1500	20	≥0.44	20	1500	1430
		omni-LC-S44HM2000	20	≥0.44	20	2000	1930
stainless steel	G2 A	omni-LC-K52HK0250	40	≥0.66	10	250	160
		omni-LC-K52HK0500	40	≥0.66	20	500	510
		omni-LC-K52HK0750	40	≥0.66	20	750	690
		omni-LC-K52HK1000	40	≥0.66	20	1000	910
		omni-LC-K52HK1500	40	≥0.66	20	1500	1410
		omni-LC-K52HK2000	40	≥0.66	20	2000	1910

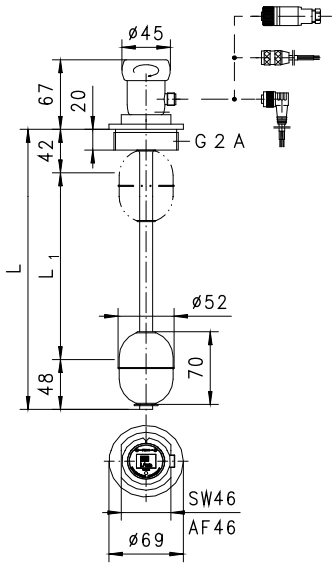
omni-LC-S45

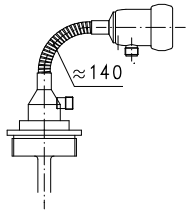


omni-LC-S44



omni-LC-K52





A **goose-neck** (optional) between the electronics head and the primary sensor provides complete freedom in the sensor alignment and reading direction. This option also gives thermal decoupling between both units.

NOMENCLATURE

omni-LC-	S45HM	0250	H		basic type / specification
	S45HM			●	socket thread G1 A brass - float Spansil
	S44HM			●	socket thread G1 1/2 A brass - float Spansil
	K52HK			●	socket thread G2 A stainless steel
		0250		●	tube length L= 250mm
		0500		●	tube length L= 500mm
		0750		●	tube length L= 750mm
		1000		●	tube length L= 1000mm
		1500		●	tube length L= 1500mm
		2000		●	tube length L= 2000mm
			H	❍	goose-neck
Special option VARIO				❍	special tube length

●BASIC Standard ❍BASIC Programme option ❑VARIO Special option ⊕ PLUS Accessories ✕not recommendable