

Product Information

Level Sensor LC-...HM / HK



- Mounted in the cover
- Materials combination may be selected

Characteristics

A float fitted with a magnet affects a chain of reed contacts within the guide tube. The reed contacts are fitted with resistances in such a way that in the very simplest model, behaviour is similar to a potentiometer. The measured value can therefore be evaluated as a resistance value or as a radiometric signal (depending on the supply voltage). Alternatively, a sensor model with 4..20 mA analog output (2 wire or 3 wire) or 0..10 V may be selected. The arrangement of the reed contacts ensures the clarity of the switching state, and therefore a clean detection of the level. Resolution is 10 or 20 mm. The device has high reproducibility.

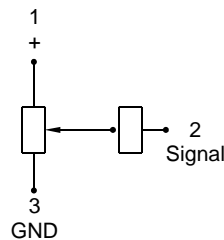
Technical data

Switch	reed switch chain with float fitted with magnet	
Mechanical Connection	LC-S45	G 1 A
	LC-S44	G 1½ A
	LC-K52	G2A
For metering ranges, lengths and divisions	see "Ranges, dimensions and weights"	
Length tolerance	±5 mm	
Pressure resistance	LC-S45	PN 20 bar
	LC-S44	PN 20 bar
	LC-K52	PN 40 bar
Medium temperature	-20..+105 °C	
Ambient temperature	-20..+70 °C	
Storage temperature	-20..+80 °C	
Density of medium	LC-S45	³ 0.34 g/cm ³
	LC-S44	³ 0.44 g/cm ³
	LC-K52	³ 0.66 g/cm ³

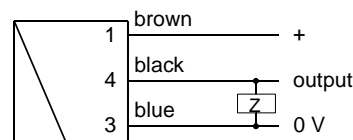
Output	resistor chain (radiometric), 4..20 mA or 0..10 V DC	
Electrical connection	plug DIN 43650-A / ISO 4400 or for round plug connector M12x1, 4-pole (only for electronic output)	
Ingress protection	IP 67	
Materials medium-contact	LC-S45	CW614N and Spansil
	LC-S44	CW614N and Spansil
	LC-K52	Stainless steel 1.4404
Materials Electronics housing	stainless steel 1.4305	
Weights	see table "Ranges, dimensions and weights"	
Conformity	CE	

Wiring

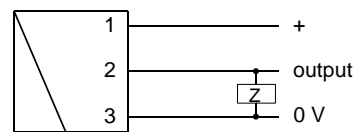
Reed switch chain Typ WB
with plug DIN 43650-A / ISO 4400



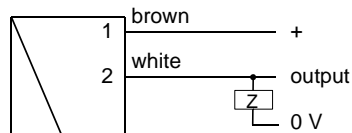
3 wire electronics Typ TS
for round plug connector M12x1, 4-pole



3 wire electronics Typ TB
with plug DIN 43650-A / ISO 4400



2 wire electronics Typ ZB



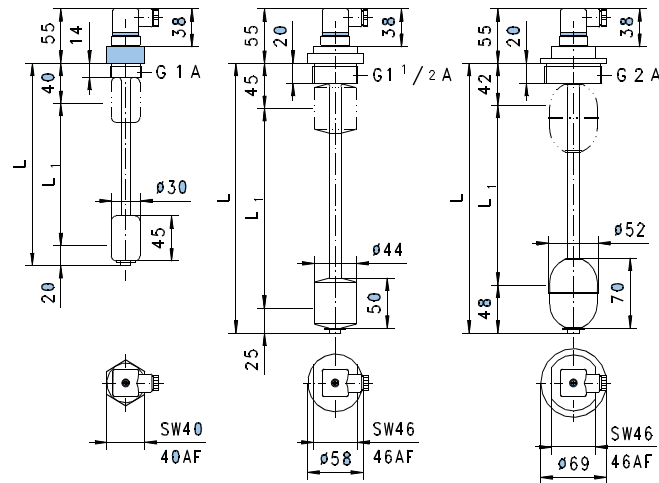
Product Information

Ranges, dimensions and weights

LC-S45HM

LC-S44HM

LC-K52HK



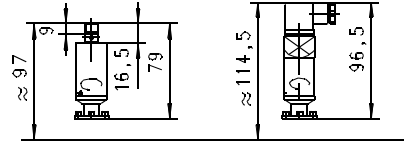
Types LC-	L	L1	Division mm	Resistance * R _{NENN} / Ohm	Tolerance Ohm	Weight kg
S45HM02 50	250	190	10	1800	±136	0.5
S45HM05 00	500	440		4300	±186	0.6
S45HM07 50	750	690		1503	± 52	0.6
S45HM10 00	1000	940		2055	± 64	0.7
S44HM10 00	1000	930		2295	± 95	0.7
S44HM15 00	1500	1430	20	3543	±121	0.8
S44HM20 00	2000	1930		4790	±146	0.8
K52HK02 50	250	160		20	1500	±130
K52HK05 00	500	410	4000		±280	1.0
K52HK07 50	750	660	1647		± 83	1.0
K52HK10 00	1000	910	2246		± 94	1.1
K52HK15 00	1500	1410	3493		±120	1.1
K52HK20 00	2000	1910	4741		±144	1.1

* + 1000 Ohm
Pre-resistance

Electronic attachments

Round plug connector

Plug
DIN 43650-A / ISO 4400



Handling and operation

Note:

Not suitable for use in media with ferritic particles.

Installation

Installation is carried out by screwing the sensor into a suitable threaded drilling on the upper side of the container. A flat seal is included in the scope of the delivery.

Ordering code

LC - 1. 2. 3. 4.

○=Option

1. Version			
S45HM	screw-in fitting G 1 A brass - float Span-sil		
S44HM	screw-in fitting G 1 1/2 A brass - float Spansil		
K52HK	screw-in fitting G 2 A stainless steel		
2. Tube length L			
0250	250 mm	●	●
0500	500 mm	●	●
0750	750 mm	●	●
1000	1000 mm	●	●
1500	1500 mm	●	●
2000	2000 mm	●	●
3. Output			
W	resistive sensors		
Z	○ 4..20 mA (2 wire)		
T	○ 4..20 mA (3 wire)		
V	○ 0..10 V		
4. Electrical connection			
B	plug DIN 43650-A / ISO 4400		
S	○ round plug connector M12x1, 4-pole		

Options

- Special lengths,
- Special divisions,
- Temperature 120 °C

Accessories

- Round plug connector/cable