This capacitive filling level sensor determines the filling level of reservoirs over a height of 300 mm. The sensor is mounted laterally to the reservoir or projects into the filling material.

The analogous output signal is produced from the sum of the 10 sensor segments covered with filling material. Thanks to the easy to handle teach-in function adjustment of function is very comfortable. This automatic setting can be changed by pressing a push-button (Sense - or Sense +) depending on the operation.

Teach - In
Function

Technical Data

Type	KKU 003.19
Art.-No.	1055D
Measuring height _{depends on the monitored filling range and is independent from the properties of the filling material.}	300 mm
Measuring distance _{referred to water: reduces dependent on the properties of the filling material.}	0 - 20 mm
Output (load >10 kOhm)	0 - 10 V
Resolution	10 %
Measuring distance autom.: (adjustable) or manually:	Teach-in at filled recipient step by step
Supply voltage	24 V DC +10/-15%
Ripple voltage	max. 15 %
No-load current	max. 40 mA
Response time	0,5 s.
Readiness delay	1 s
Ambient temperature	-10 to +70 °C
Protection class	IP 67
Connection	1,5 m cable
Function display	LED
Housing material	Plastic PBT
Weight	1,2 kg

Automatic adjustment actuate both push-buttons until green LED gives light. Internal adjustment is terminated when all LEDs give light (max. 10 s).

1.1 with filled container: The switching point programmed in such a way includes an optimum safety margin for operation. If there is no trouble-free operation, the switching point can be changed step by step.

1.2 with empty container: The sensor programmed in this way is giving full output without filling. Thereafter the switching point is to be brought into a safe mode by pressing the push-button (Sense -) for 8 times.

Increase or reduction of the switching distance at filled or empty recipient by actuating one push-button (Sense - or Sense +) until green LED gives intermittent light. Repeat if required.
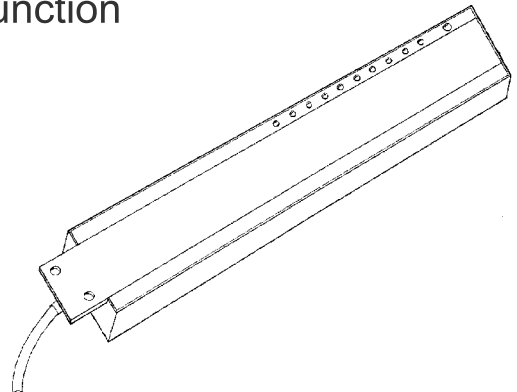
Diagram of Connections

aktive Fläche

28.06.1999 Details are subject to change without notice.   WG 100

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