Level module for installation into level sensors
- Type NC1 self-adjusting + foam detector -

Hengesbach
Prozessmesstechnik

- **SELF-ADJUSTING LEVEL MODULE FOR PRODUCT AND FOAM DETECTION**
- **FOR INSTALLATION INTO THE NKS LEVEL SENSOR**
- **CONNECTION TO SPS POSSIBLE**
- **LOW INSTALLATION COSTS**

DESCRIPTION

The NC1 is a self-adjusting level module designed for installation into the head of a conductive measuring sensor. The NC1 is used for product and foam detection. A low- and high-resistance switch output enables "full" and "empty" messages to be sent for liquids with a high or low conductivity. It can even be used for foaming liquids. Intricate adjustments of the NC1 and adaptation to the various product conductivities, tank geometries and electrode lengths are no longer required. The NC1 finds its own switchpoints, using innovative methods. In addition, the NC1 is protected against reverse polarity of the supply voltage and against output overload. The outputs are low-active, so that the output signal will be triggered even if there is a drop in voltage or if the wire breaks. The operating mode, i.e. high-level or low-level, is determined via a link plug.

TECHNICAL DATA		CONNECTION DIAGRAM FOR LEVEL MODULE
Operating voltage	DC24V ± 25%	
Current consumption	< 5mA plus output currents	
Switchpoints	2, low- and high-resistance	
Resistance ranges	30 Ω … 300k Ω	
Conductivity range	33mS … 3.3µS	
Output signals 　inactive 　active	low-active approx. 1V when applying operating voltage disconnected	
Output load	max 200mA (sum of both outputs)	
Dimensions 　Diameter 　Height	 < 43mm < 21mm (incl. terminals)	
Weight	approx. 20g	
Environmental conditions 　Temperature 　Humidity	 -20°C … +85°C 20% … 95%	
Installation	into conductive level sensors of the type NKS 11 and NKS 13	

Link plug

CONNECTION ALLOCATION:

Terminal connection	+ and -	connections for operating voltage DC 18V … 30V
	E	unused
	1	product detection, low active output signal for the low-resistance switchpoint
	2	foam detection, low active output signal for the low-resistance switchpoint
Link plug	HL	full message (high level)
	LL	empty message (low level)

Our products are constantly in further development, therefore subjects to modifications.

N-NC1-D-e-08-1/1