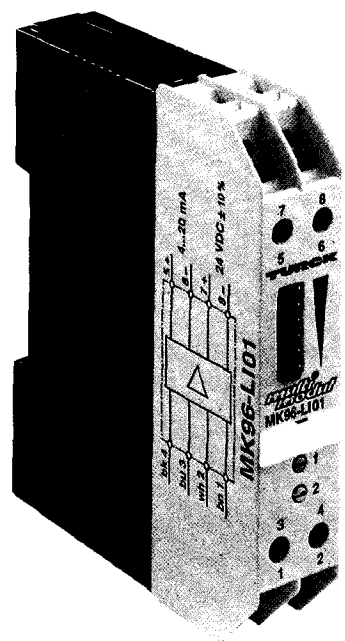


Signal Processor
with Current Output

multi-modul Housing



- **Signal processor for**
 - insertion style sensors
 - in-line sensors
- **18 mm wide terminal housing**
- **Finger protection according to VGB 4 and VDE 0470, Part 1**
- **Current output from 4...20 mA**
- **Simple switch set-point calibration with two potentiometers**
- **6 LEDs to indicate output status**

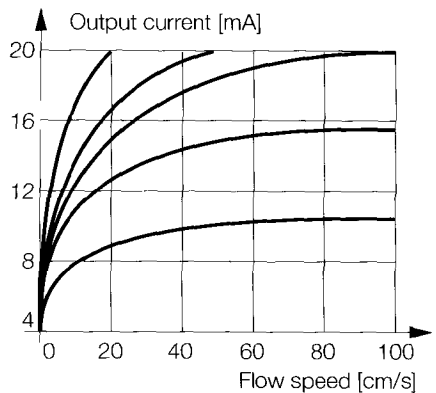
The single channel MK96-Li01 is designed for use with insertion style sensors series FCS and in-line sensors FCI.

All logic functions as well as the adjustment and display elements are combined in one 18 mm wide compact package.

The voltage analogue input signal is transferred to an U/A converter where it is converted into a 4...20 mA analogue output.

The operating range, over which switch actuation is desired, is adjusted by means of two potentiometers. Potentiometer 2 is used to set the 4 mA output at minimum flow speed. The high level setting is achieved with potentiometer 1 by adjusting it, so the output at maximum flow speed is 20 mA.

The following characteristic curve shows the relationship between output signal and flow speed:

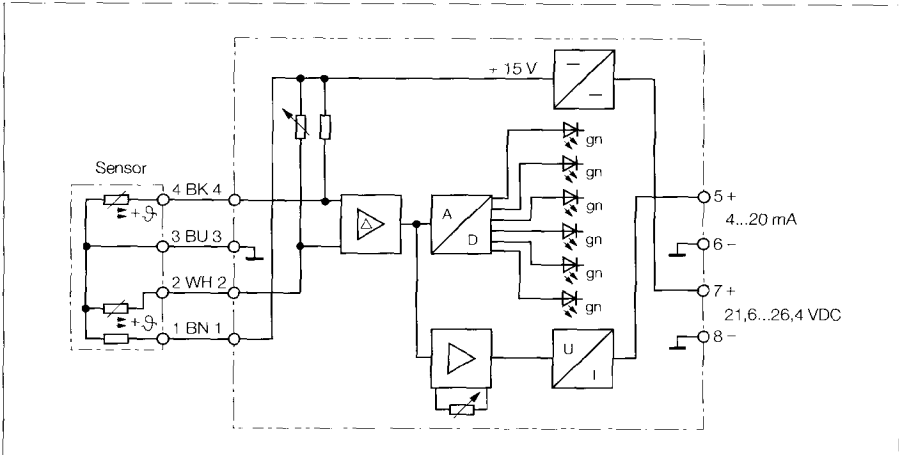


6 LEDs indicate the status of the output signal relative to the preset range.

Applications

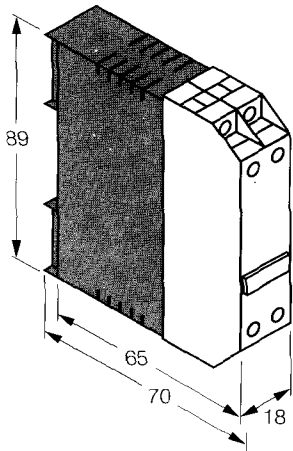
Flow controls with analogue output are used in applications where more than a simple switching signal is required to indicate "flow" or "no flow".

- Typical applications are:
- Trend monitoring (e. g. monitoring of filters)
 - Monitoring of various fluids and limit values
 - Monitoring of several switching points (e. g. run dry alarm in pumps)



Supply Voltage U_B		21.6...26.4 VDC (including ripple)
Current consumption		$\leq 100\text{ mA}$
Output		Current output
Load		$\leq 500\ \Omega$
Current		4...20 mA (max. 25 mA)
Operating Ranges (flow rate)		depending on sensor type
LED Functions		
Output status		green (6)
From 1...6 LEDs illuminate:		
...LED 6		$\geq 20\text{ mA}$
...LED 5		$> 16\text{ mA}$
...LED 4		$> 12\text{ mA}$
...LED 3		$> 8\text{ mA}$
...LED 2		$> 4\text{ mA}$
...LED 1		$= 4\text{ mA}$
Housing		
		8-pole terminal housing, 18 mm wide, Polycarbonate/ABS flammability class V-0 per UL 94
Mounting		snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting
Connection		via flat terminals with self-lifting pressure plates
Connection profile		$\leq 2 \times 2.5 / 2 \times 1.5\text{ mm}^2$ with wire sleeves
Protection type (IEC 529/DIN 40050-9)		IP 30
Operating temperature		-25...+60 °C
Accessories		
		1 screwdriver for operation range adjustment

multimodul housing



Signal Processor (Housing: 18 mm wide)			
Type	Ident-No.	Supply Voltage	Current Consumption
· MK96-Li01	75 250 04	21.6...26.4 VDC	$\leq 100\text{ mA}$