Data Sheets

LED-line

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Analogue Display

General Information

LED-line is a highly economical and versatile process indicating bargraph indicator that may be mounted horizontally or vertically.

The high visibility LEDs allow the signal value and its trend to be determined at a glance.

The display may be configured to act as moving dot or accumulating bar format, to suit such applications as position monitoring or level indication.

The “Units-of-Measure” and scale graduation label may be customised as an added service to give greater meaning to the displayed information.

LED-line instruments have many advantages including simple installation, ease of use, high noise immunity.

Advantages

- Dot and Bar display respectively
- Zero and Span adjustment (Offset)
- Compact, space saving
- Choice of LED colour (red or green)
- Alarm indication
- Choice of Housing colour (black or beige)
- High input impedance
- Expanded measuring range possible
- Completely solid state
- Easy mounting and wiring
- Various self-adhesive scales available

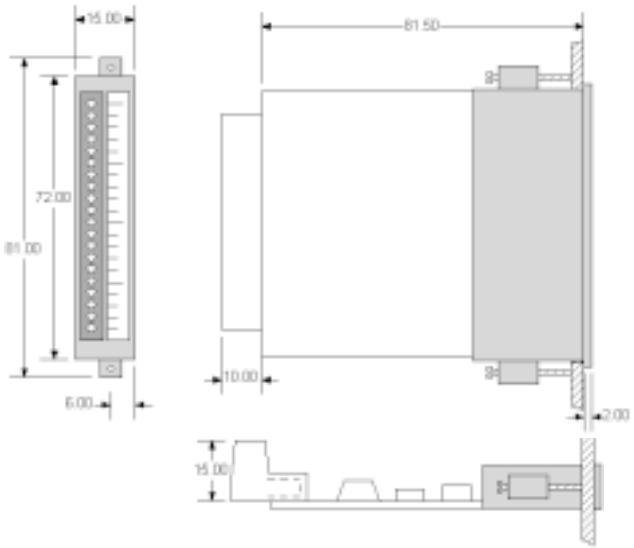
Applications

Voltage and current measurement

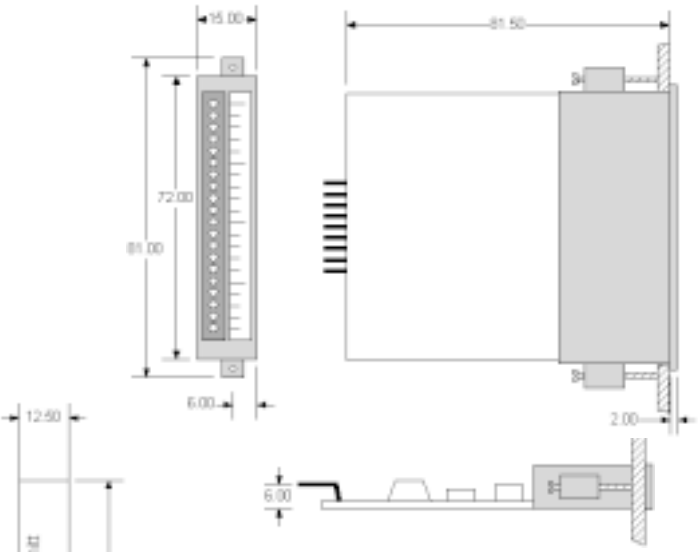
Display of process measurement signals in installations as;

– Fluid Levels
– Pressure
– Temperature
– Viscosity
– Flow speed
– Number of revolutions
– Supervisory monitoring
– Amplitude and balance control
– Signal comparison
– Tolerance check

Dimensions Type 06



Dimensions Type 01, 11, 02, 03,14



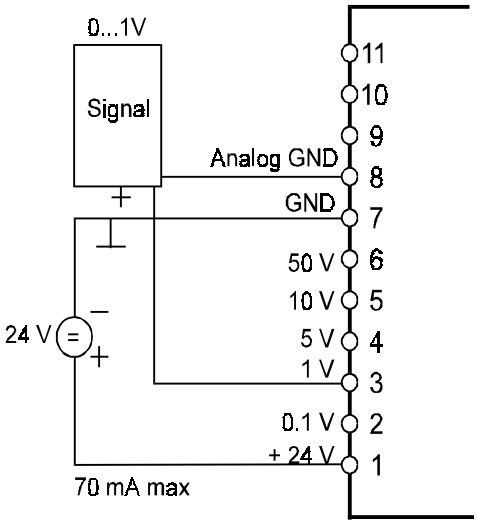
Panel cut-out

Specifications and type summary							
Type		**O1**	**11**	**O2**	**O3**	**14**	**O6**
Number of LEDs		21	21	21	21	21	21
Bar display		+		+	+		+
Dot display			+			+	
Measuring range - Voltage DC	V	* 0...+1 0...+10	* 0...+1 +0...+10	* 0...+0.1 0...+1	* 0...+5 0...+50	-0.5...+0.5	0.1 1.0 5.0 10.0 50.0
- Current DC	mA	*0...+20	*0...+20	*0...+2		-10...+10	0...+20
Maximum input voltage	V	±15	±15	±15	±50	±15	±15
Zero point oppression		*...50%	*...50%	*...50%			
Zero point (offset)						± 10%	±10%
Input impedance - voltage - current	K Ohm Ohm	100 47	100 47	100 47	100	100 47	470 22
Supply voltage range Supply current at 24 V Supply current at 12 V Supply current at 5 V	V mA mA mA	+10...18 – 70 –	+10...18 – 55 –	+10...18 – 70 –	+10...18 – 70 –	+10...18 – 55 –	+18...30 70 – –
Linearity in comparision with full scale		5%	5%	5%	5%	5%	5%
Operating temperature		0...+60 °C					
Storage temperature		-20...+80 °C					

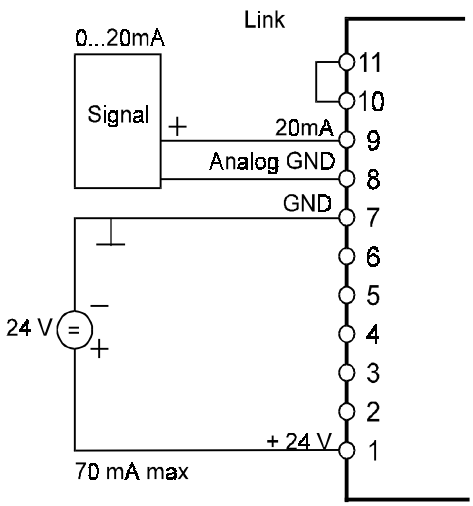
* Selectable or adjustable by user

Application example, type 06

Voltage measuring, signal 1 VDC



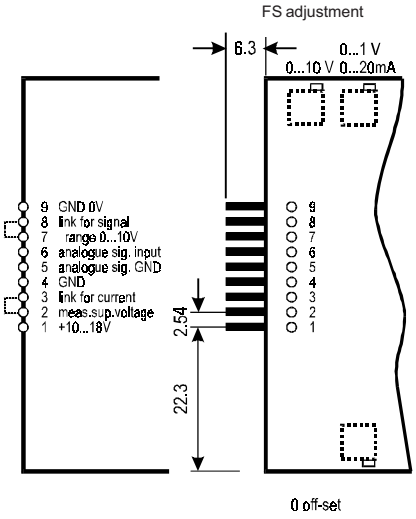
Current measuring



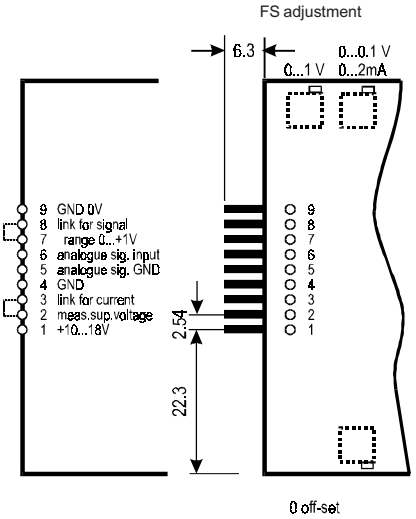
Important! No galvanic separation between supply voltage and measuring circuit!

Connections

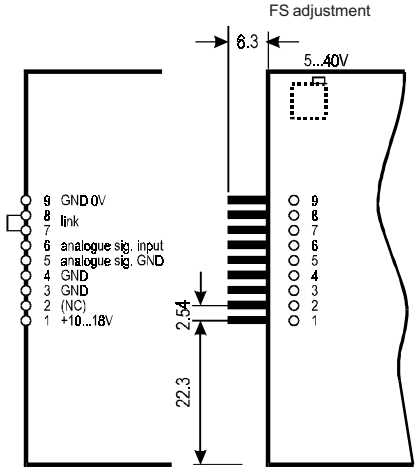
01,11



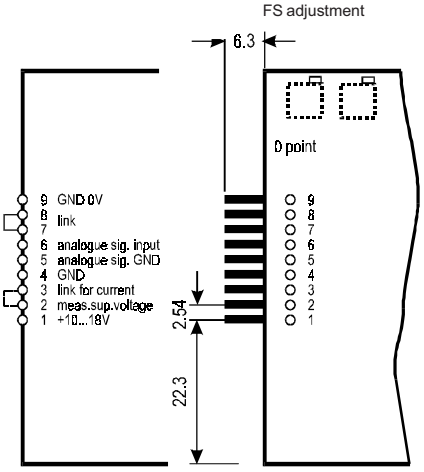
02



03



14



Overflow: On types 11 and 14 an additional dot indicates overflow.

Ordering codes

Example of ordering code: *L-2A01003B*

LED-line **L - 2 A 0 1 0 0 3 B**

Housing dimensions 2=72mm
Housing colour: A=grey, B=black
Type
Logic family 00=Analogue
01=zero diode on opposite side (types 01, 02, 03)
02=flashing rated value (Types 01, 02)*
LED colour: 1=green, 3=red
Connections: B=solder pins, C=removable screw terminals
*Rated value reached: last diode flashes
Rated value exceeded: last three diodes flash

LED-line Scales

Order Number	Type	Rage	Basic colour	Inscription	Orientation
CU309002C	Scale for LED-line Display	0...0.5...1.0	silver	black	horizontal
CU309002D	Scale for LED-line Display	0...0.5...1.0	black	silver	horizontal
CU309003A	Scale for LED-line Display	0...1.0	silver	black	vertical
CU309003B	Scale for LED-line Display	0...1.0	black	silver	vertical
CU309008C	Scale for LED-line Display	-50...0...+50	silver	black	horizontal
CU309008D	Scale for LED-line Display	-50...0...+50	black	silver	horizontal
CU309012A	Scale for LED-line Display	0...10...20	silver	black	vertical
CU309012B	Scale for LED-line Display	0...10...20	black	silver	vertical
CU309013C	Scale for LED-line Display	0...5...10	silver	black	horizontal
CU309013D	Scale for LED-line Display	0...5...10	black	silver	horizontal
CU309014A	Scale for LED-line Display	0...5...10	silver	black	vertical
CU309014B	Scale for LED-line Display	0...5...10	black	silver	vertical
CU309030C	Scale for LED-line Display	0...50...100	silver	black	horizontal
CU309030D	Scale for LED-line Display	0...50...100	black	silver	horizontal
CU309031A	Scale for LED-line Display	0...50...100	silver	black	vertical
CU309031B	Scale for LED-line Display	0...50...100	black	silver	vertical
CU309182A	Scale for LED-line Display	0...10...20...10	silver	black	vertical
CU309182B	Scale for LED-line Display	0...10...20...10	black	silver	vertical
CU309202A	Scale for LED-line Display	0...5...10...15	silver	black	vertical
CU309202B	Scale for LED-line Display	0...5...10...15	black	silver	vertical
CU309207A	Scale for LED-line Display	0...125 %	silver	black	vertical
CU309207B	Scale for LED-line Display	0...125 %	black	silver	vertical
CU309217A	Scale for LED-line Display	0...100 %	silver	black	vertical
CU309217B	Scale for LED-line Display	0...100 %	black	silver	vertical

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