JK0030A1
JK0030A1-F

Isolated analog transmitters JK0030A1 & JK0030A1-F are designed to provide simple and low cost solutions for all transmission, signals isolation and protection against lightning impulse (JK0030A1-F) problems.

This transmitter range is designed in JM Concept case unplugged from its rail DIN base.

Use of very efficient components in a wide temperature range ensures a very high level of reliability and very low thermal drift.

JM Concept
une vision d'avance

JK0030A1 & JK0030A1-F

To provide solutions for all problems, analog transmitters 0...4/20mA –0...4/20mA are declined in 2 ranges :

• JK0030A1 : Transmitters input 0...4/20mA, output 0...4/20mA
• JK0030A1- F : Transmitters input 0...4/20mA, output 0...4/20mA with protection against lightning impulse.

TECHNICAL CHARACTERISTICS

INPUT CHARACTERISTICS

CURRENT (DC)	0/20 mA ; 4/20 mA
SENSOR POWER SUPPLY	2 or 3 wires Sensor supply 24Vdc - 22 mA

OUTPUT CHARACTERISTICS

ANALOG OUTPUT	0/20mA 4/20mA

TECHNICAL CHARACTERISTICS

INPUT IMPEDANCE

Current input	4,75 Ω

OUTPUT IMPEDANCE

Current output	< 900Ω

SENSOR

Sensor power supply	U < 24 V - I < 22 mA

PRECISION CLASS	0.1
RESPONSE TIME	< 100µs
THERMAL DRIFT	< 50ppm
CASE	Self-extinguishable polyamide UL V0
AGAINST LIGHTNING (JK0030A1-F)	Report LCIE 60031114 - 529387

ISOLATION

Supply isolation / Input	2500Vac - 1mn - 50Hz
Supply isolation / Output	2500Vac - 1mn - 50Hz
Input isolation / output	2500Vac - 1mn - 50Hz

AUXILIARY SOURCE

Standard auxiliary source	20Vdc/370Vdc & 80Vac/256Vac
Option	20Vac/60Vac

CONSUMPTION

Maximum consumption	< 3VA

TEMPERATURE

Operating temperature	-10°C / +60°C
Storage temperature	-25°C / +80°C

PROTECTION INDEX	IP20

INPUT Current		INPUT 2 wires sensor		INPUT 3 wires sensor			OUTPUT 1 Current		AUXILIARY SOURCE	
12	8	8	9	12	8	9	10	7	2	3
-	+	-	+	-		+	-	+	WITHOUT POLARITY	
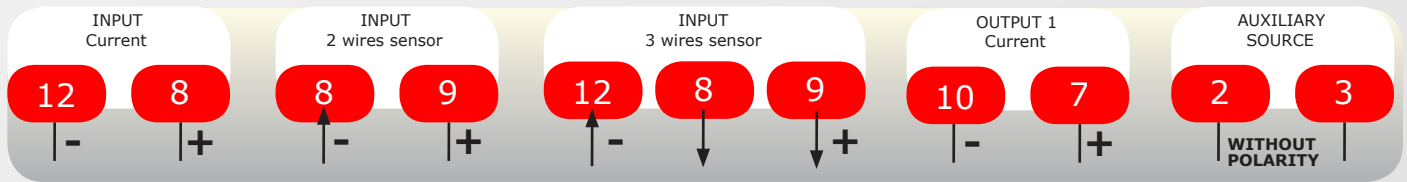
OUTPUT ADJUSTEMENT

• Wire on input terminals, a current generator.
• Wire on output terminals, a current multi-meter.
• With generator, generate signal corresponding to input signal low value.
• Adjust with potentiometer called «OFFSET» bottom output scale.
• With generator, generate signal corresponding to input signal high value.
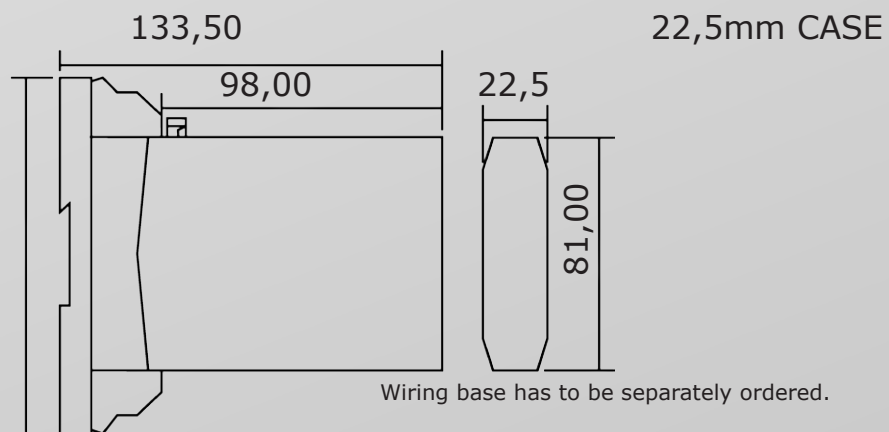• Adjust with potentiometer « SCALE » top output scale.

Start again successively these 2 operations as much as it is necessary until you have low and high right scale values.

DIMENSIONS AND TERMINALS

BASELINE
screw or spring

| 1 | 2 | 3 |
| 4 | 5 | 6 |

| 7 | 8 | 9 |
| 10 | 11 | 12 |

121,50

133,50

98,00

22,5mm CASE

22,5

81,00

Wiring base has to be separately ordered.