



[DITEL](#): [PRODUCTS](#): [DIGITAL STARS](#): **846S0YCX**



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DESCRIPTION

Model 846S panel indicators can be configured for either resistance measurement with direct readout in ohm or kohm or for length or displacement indication and control as they can accommodate potentiometers by 2- or 3-wire.

Available options include analog or digital outputs and setpoint control which is programmable by either hidden or visible presets. One selector provides adjustable time delay or hysteresis to limit relay action.

Fully configured at the factory, the following items remain accessible of reconfiguration:

- Zero, span adjustments and decimal point location.
- Preset values and alarm operating modes. Time delay (0 to 15 seconds) or hysteresis levels (0 to 10 counts).
- The output type and, in case of analog outputs, the display span producing the full output signal span.

SELECTION GUIDE

846	S	0	Y	C	X
PRESET / RELAY					
NO PRESET	0				
1 VISIBLE PRESET	1				
2 VISIBLE PRESETS	2				
1 HIDDEN PRESET	5				
2 HIDDEN PRESETS	6				
SUPPLY POWER					
115V 50/60Hz			1		
230V 50/60Hz			2		
12V DC ISOLATED			4		
24V 50/60Hz			7		
24V DC ISOLATED			8		
OUTPUTS					

NONE				0	
RS 232C				1	
BCD (OE)				2	
0-10V/0-1V				3	
0-20mA/4-20mA				4	
RS 232/20mA				5	
BCD (OC)				6	
1mV/count				8	
RANGES					
199.9 ohm					3
1999 ohm					4
19.99 ohm					5
Potentiometer					9
SILKSCREENED UNIT					

ORDERING EXAMPLE

8466 0253 E00 : Ohmmeter / displacement ind.
 Supply power: 230V AC (50/60Hz)
 2 hidden presets. Range: 199.9ohm
 Output: RS232/20mA. No units

SPECIFICATIONS

INPUT SIGNAL (Ohmmeter)

- Current of measure

Im

Scale	199.9 ohm	1999 ohm	19.99 kohm
Im	5mA	0.5mA	0.05mA

- Connection
- Overvoltage protection
- Technique of measure

2-wire
 25Vp
 const.
 current
 generator

INPUT SIGNAL (Potentiometer by 2-wire)

- Current of measure 0.05mA min, 5mA max
- Potent. resistance 200ohm min, 20kohm max
- Range jumper-configurable

INPUT SIGNAL (Potentiometer by 3-wire)

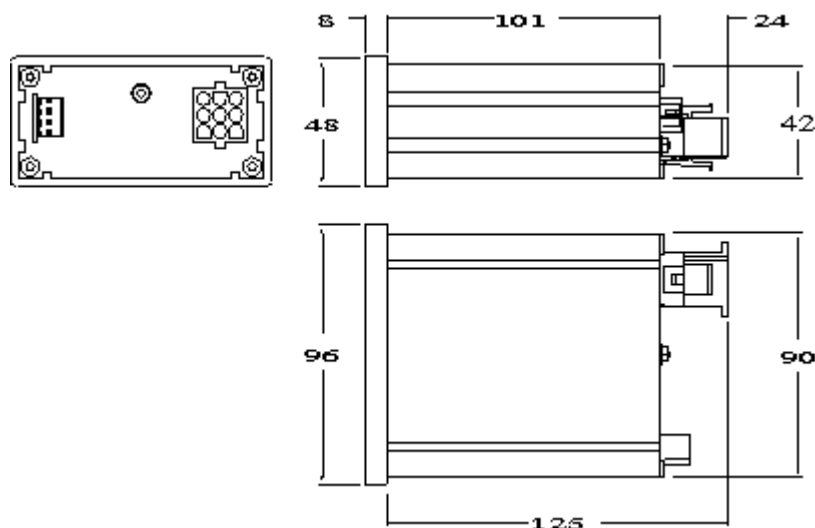
- Current of measure 2.5V
- Potent. resistance mín 200ohm, máx 100kohm
- Range configurable por puentes

POWER

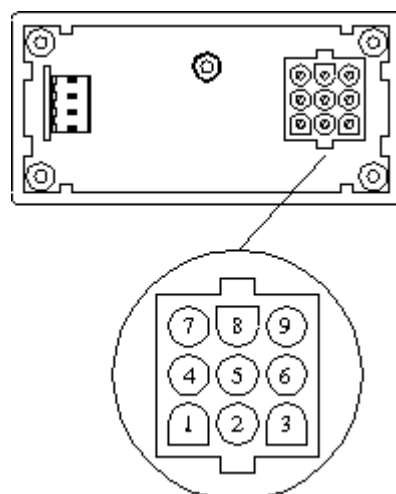
- Supply voltages

AC (50/60Hz)	24, 115, 230V AC
DC (isolated)	12, 24V DC
• Maximum isolation	1000V DC or 1500V ACpp
• Consumption	5W nominal
ACCURACY	
• Resolution	0.05% F.S.
• Maximum error	0.1% F.S. ± 1 digit
DISPLAY	
• Type	red LED (0.56") 14 mm. high
• Overrange	1999. (3 L.S.D. blanked)
• Reading rate	4 per second
ENVIROMENTALS	
• Operating temperature	0°C to 50°C
• Storage temperature	-25°C to +85°C
• Relative humidity	max. 95% (non condensing)
• Weight	380g
• Dimensions	96x48x110mm. (s/DIN 43700)
• Case material	94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)



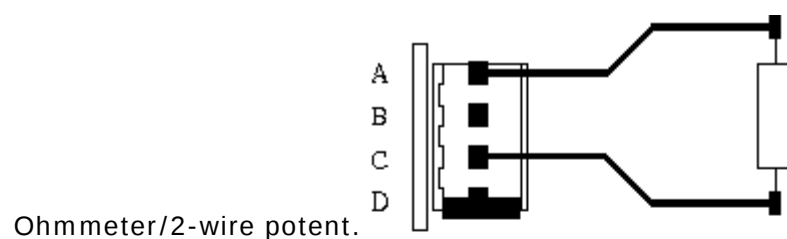
POWER CONNECTION



AC power supply
 PIN 7 AC HI
 PIN 9 AC LO (neutral)

DC power supply
 PIN 7 DC Positive (+)
 PIN 9 DC Negative (-)

SIGNAL CONNECTION



Ohmmeter/2-wire potent.

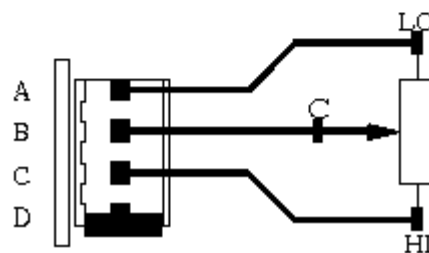
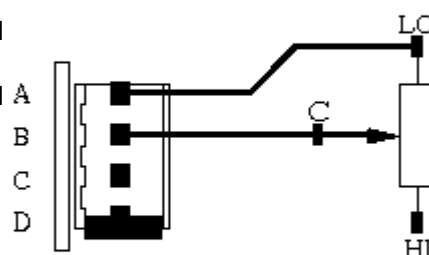
PIN A Res LO / Pot LO
 PIN B Res HI / Pot central

PIN C Res HI / Pot central

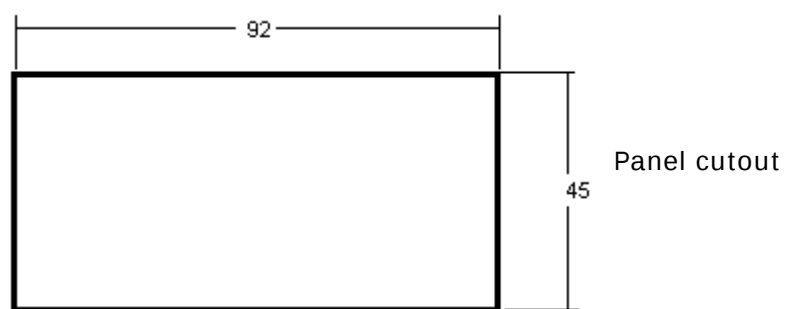
PIN D Spare

3-wire potent.

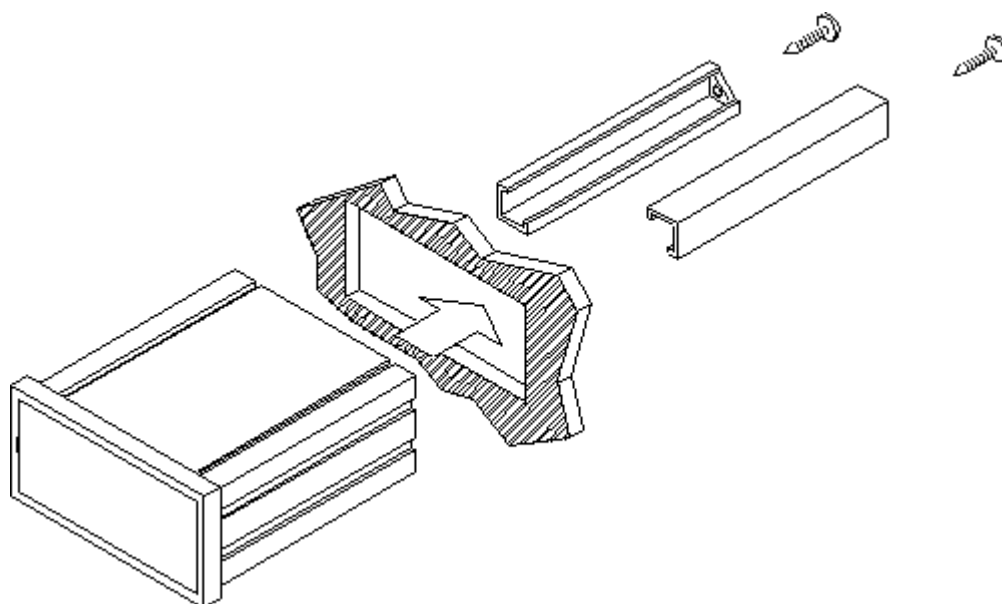
PIN A Pot LO
 PIN B Pot central
 PIN C Pot HI
 PIN D Spare



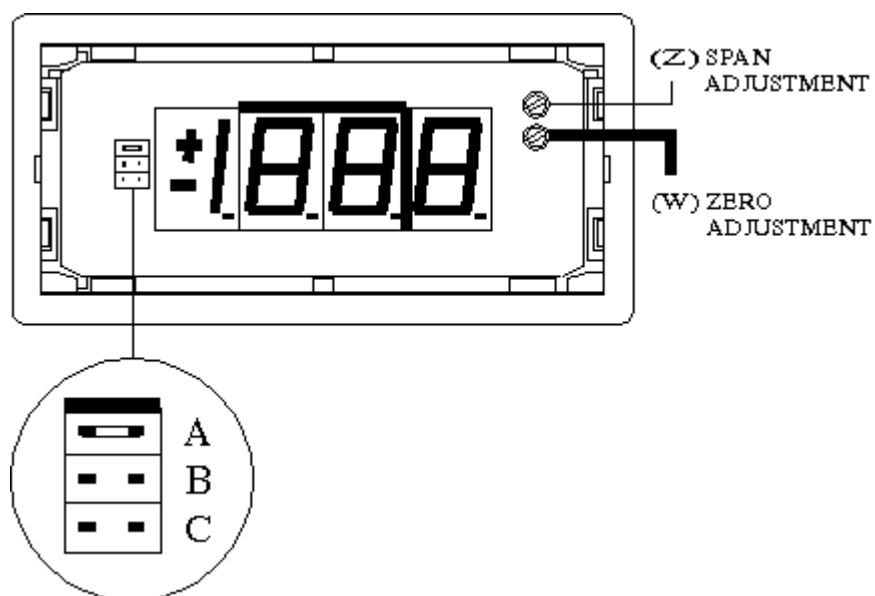
MOUNTING



Min. thickness : 0.8mm Max. thickness : 10mm



SETUP AND CALIBRATION



jumper	display
A	1.999
B	19.99

C	199.9
none	1999

The zero and span adjustment is made via the potentiometers (W) and (Z) respectively, located to the upper, right side of the display. Turning clockwise increases the display readout.

The zero adjustment margin depends on the configuration. Minimum value is ± 150 counts.

The span adjustment margin is $\pm 20\%$ of F.S.

INPUT CONFIGURATION

Ohmeter / 2-wire potentiometer: Solder J7 and J9

3-wire-potentiometer: Solder J6

SCALING

Ohmeter

Scale	199.9 ohm	1999 ohm	19.99 kohm
R27+R28	500 ohm	5 kohm	50 kohm
R19	10 ohm	10 ohm	10 ohm

Displacement indicator:

2-wire potentiometer: $R27+R28 = 2,5$ times the potentiometer resistance.

$R19 = 10$ ohm.

3-wire potentiometer: do NOT connect R19, R27 nor R28.

Warranty:

Press the icon to see it.



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