DITEL: PRODUCTS: DIGITAL STARS: **836SXYC9**

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DESCRIPTION

Model 836S panel indicators are specific instruments for readout and control linear or rotational rates from tachometric dynamos with the most standard scales and the possibility to adapt the display to any V/rpm ratio.
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:

- The input option (signal amplitude, gain).
- Preset values and alarm operating modes. Time delay (0 to 15 seconds) or hysteresis levels (0 to 10 counts of L.S.D.).
- The output option for the type of signal and its range.
- Zero, span adjustments and decimal point location.

SELECTION GUIDE

836	S	X	Y	C	9
PRESET / RELAY					
NO PRESET	0				
1 VISIBLE PRESET	1				
2 VISIBLE PRESETS	2				
1 HIDDEN PRESET	5				
2 HIDDEN PRESETS	6				
INPUT					
10V/1000rpm		1			
30V/1000rpm		2			
40V/1000rpm		3			
60V/1000rpm		4			
120V/1000rpm		5			
220V/1000rpm		6			
440V/1000rpm		7			
UPON REQUEST		9			
SUPPLY POWER					

115V 50/60Hz			1		
230V 50/60Hz			2		
12V DC ISOLATED			4		
24V 50/60Hz			7		
24V DC ISOLATED			8		
OUTPUT					
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	
SILKSCREENED UNIT					

ORDERING EXAMPLE

8361 4249 E61 : Tachogenerator meter S8000
Supply power: 230V AC (50/60Hz)
1 preset. Input: 60V/1000rpm
Output: 4-20mA Unit: m/min

SPECIFICATIONS

INPUT SIGNAL

- Configuration: Differential asymmetrical
- Maximum applicable voltage: Vmax.(IN)
- Input impedance: Z(IN)

INPUT (V/rpm)	10, 30, 40, 60	120, 220, 440
Vmax. (IN)	250V	1000V
Z (IN)	1Mohm	3Mohm

- Common mode max. voltage (signal/power):

- AC Voltage: 1000V DC or 1500V ACpp
- DC Voltage: ± 400V DC

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.
- Max error: 0.10% F.S. ± 1 digit

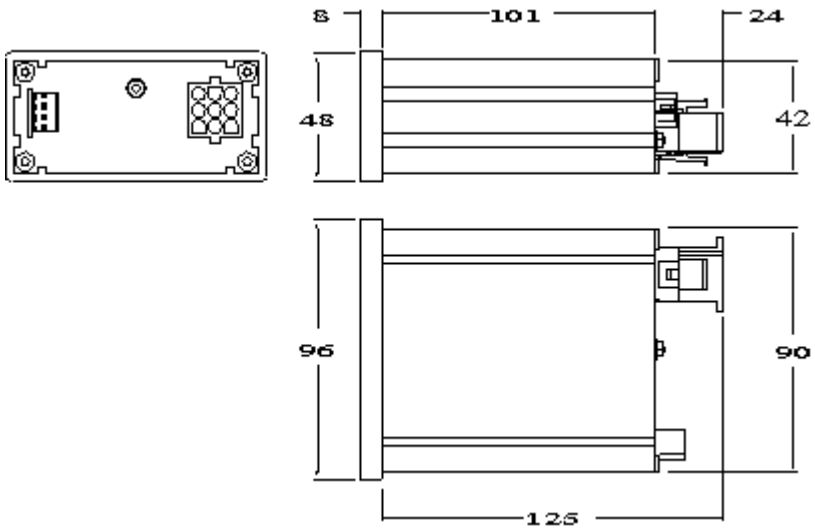
DISPLAY

• Tipo	red LED (0.56") 14mm. high
• Overrange	1999. (3 L.S.D. blanked)
• Polarity	automatic (±) sign
• Reading rate	4 per second

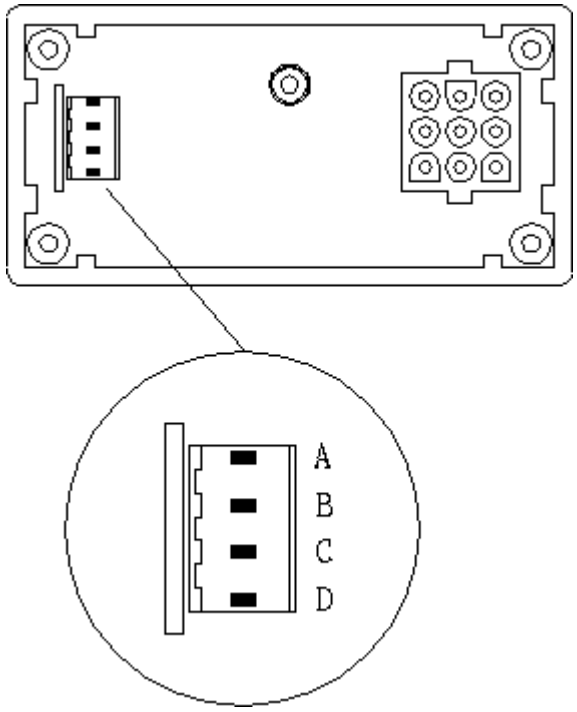
ENVIROMENTAL

• Operating temperature	0° to 50°C
• Storage temperature	-25° to +85°C
• Relative humidity	max. 95% (non condensing)
• Weight	380g
• Dimensions	96x48x110mm. (s/DIN 43700)
• Panel cutout	92x45mm. (s/DIN 43700)
• Case material	94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)

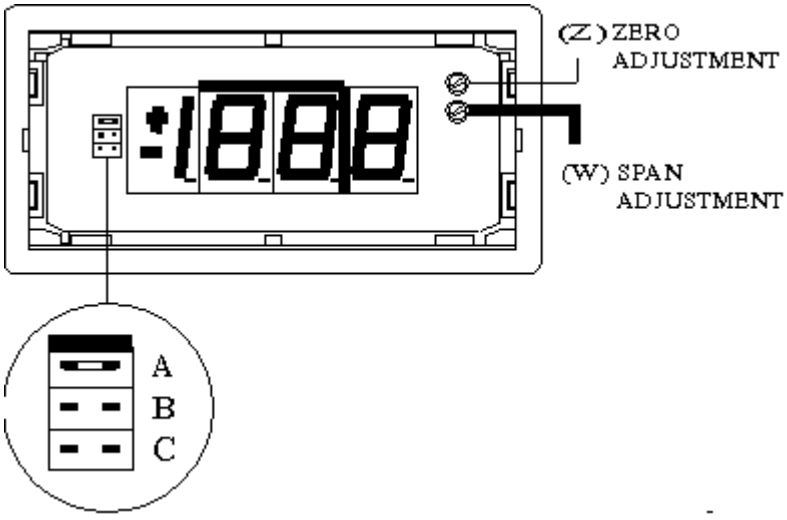


SIGNAL CONNECTION



PIN A Signal negative (-) PIB B Spare
PIN D Signal positive (+) PIN C Spare

SETUP AND CALIBRATION



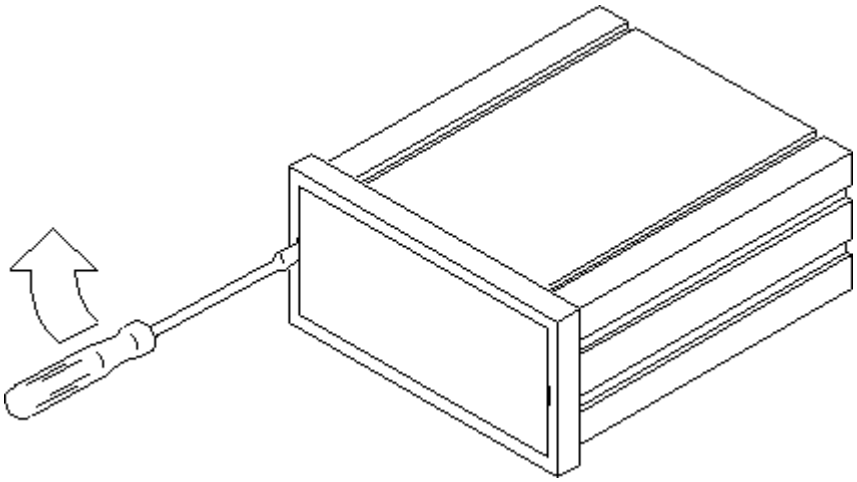
Jumper	Display
A	1.999
B	19.99
C	199.9
none	1999

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

The span adjustment margin is ± 20% of F.S.

The zero adjustment margin is ± 3 counts.

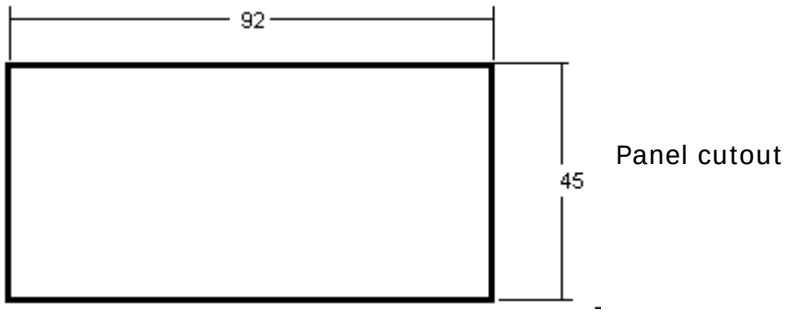
ACCESS TO CALIBRATION



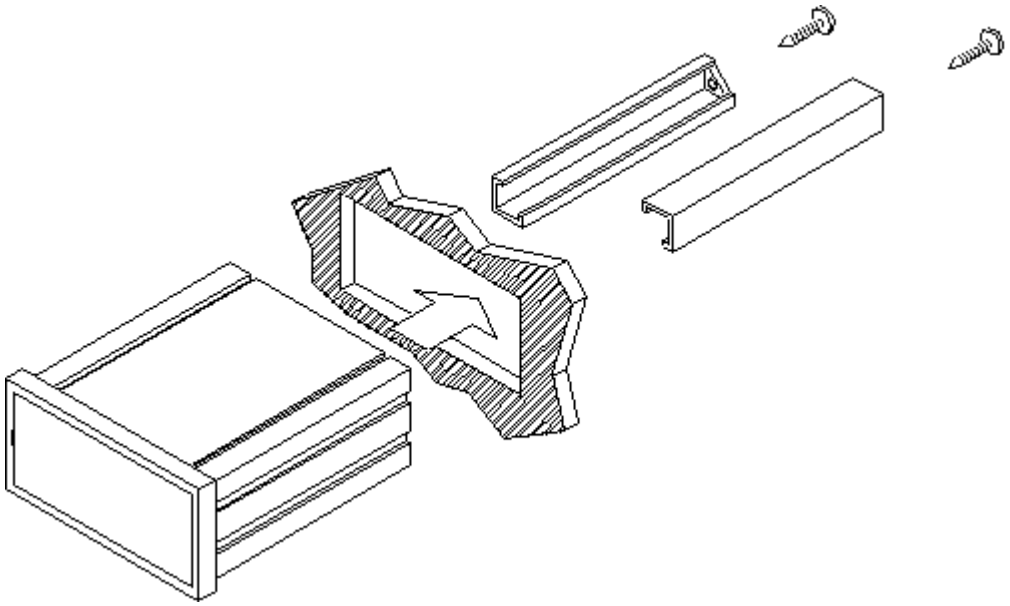
Remove lens by placing an appropriate sized screwdriver in the slot and pushing laterally as shown in the figure until the lips disengange. Unscrew the rear nut to take the circuits out from the front of the case.

To reinstall lens, insert it from one side and press from the other until it is fitted.

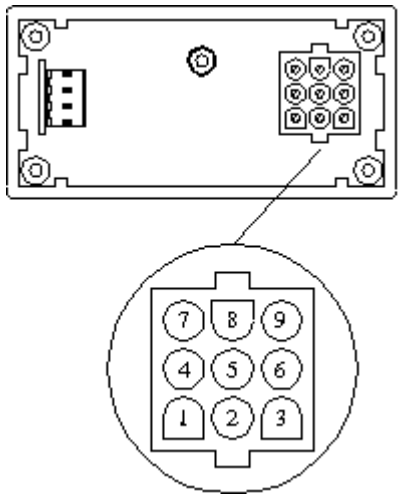
MOUNTING



Min thickness: 0.8mm Max thickness: 10mm



SUPPLY POWER CONNECTIONS

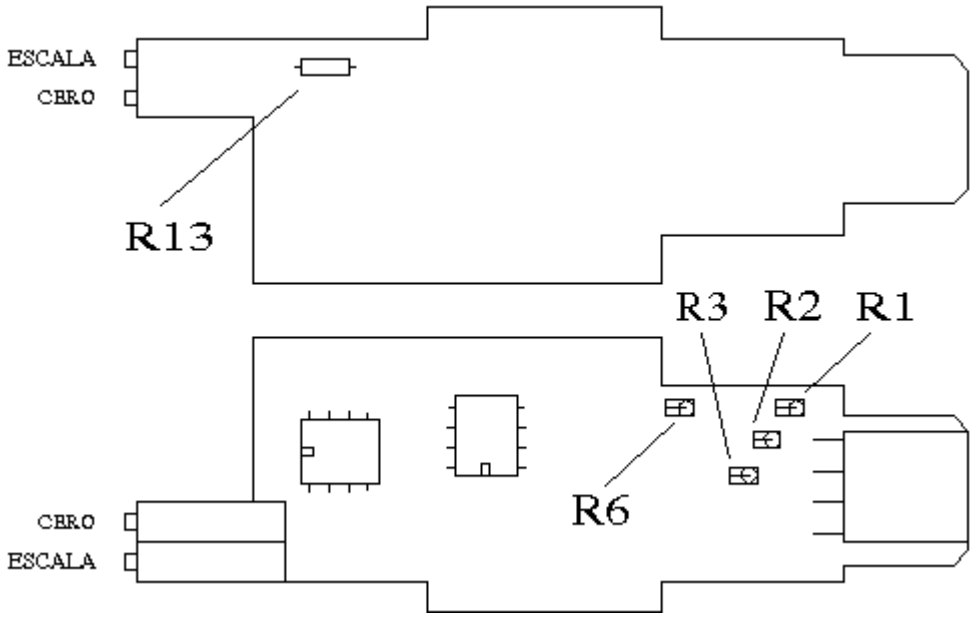


AC power supply PIN 7 AC HI PIN 9 AC LO (neutral) **DC power suply** PIN 7 DC positive (+) PIN 9 DC negative DC (-)

SCALING

Standard inputs (readout in rpm) :

V/1000rpm	10V	30V	40V	60V	120V	220V	440V
R1+R2+R3	1M	1M	1M	1M	3M	3M	3M
R6	121k	37k4	28k7	18k2	27k4	15k	7k68



Option DC REF. 264

For non-standard inputs or readout in m/min, calculate R13 and R6 according to the given formulas, where:
VE = Input voltage in volts.
VD = Display reading in counts

R13(ohm) = (1216600 / VD) - 653
VE < 200V ; R1 + R2 + R3 = 1 Mohm
R6(kohm) = 2200 / (VE - 2.2)

VE > 200V ; R1 + R2 + R3 = 3*1Mohm
R6(kohm) = 6600 / (VE - 2.2)

Warranty:
Press the icon to see it.

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