

STB127, Sealed Terminal Box



- 12701 : 4 Position, Single Row**
- 12702 : 6 Position, Single Row**
- 12703 : 8 Position, Double Row**
- 12704 : 12 Position, Double Row**
- 12705 : 24 Position, Double Row**

Feature

- ◇ Machined Aluminum Body
- ◇ Protected against mechanical damage, water and dust
- ◇ Protected against high pressure internal oil leakage from machine inside through signal cables
- ◇ Temperature compensated with each elements (Thermocouple E, J, K, T type and RTD)
- ◇ Temperature range : -40 to + 120°C
- ◇ Mechanical mounting to existing signal output hole
- ◇ Direct connect with flexible conduit or cable gland
- ◇ Protection class IP 67



12702, 6 Position, Single Row

Description

The STB127 sealed terminal box is suitable for connection the temperature sensor such as Thermocouple and RTD to field signal transmission cable without signal errors. It can be mount to the machine signal output hole with supplied mounting adapter. And, the field signal transmission cable can be connect with cable gland or flexible conduit.

The mechanically sealed terminal block stops leakage oil through temperature sensor cable inside. When the temperature sensors exposure the high pressure inside the machine, the lubrication oil can leak through cable inside. The machine side terminal block connect first terminal and field cable second terminal. The same cable type with temperature sensor type is installed between first terminal and second terminal. All components are sealed with high temperature epoxy.

SPECIFICATIONS

MECHANICAL

Material

Box Body : Aluminum 6061
Terminal Block : Bakelite PL-PM
with 18-8 SUS Heli-coil
Mounting Adapter : Stainless Steel 304
Sealant : Black Epoxy Resin
Screw : M4 x 8 mm

Size

12701 : 125 x 62 x 55 mm
12702 : 125 x 88 x 55 mm
12703 : 155 x 62 x 55 mm
12704 : 155 x 88 x 55 mm
12705 : 175 x 155 x 55 mm

Weight

12701 : 600 gram
12702 : 900 gram
12703 : 950 gram
12704 : 1250 gram
12705 : 1900 gram

ELECTICAL

Internal Wire Size : AWG 22 (0.64 mm²)

Insulation : Teflon

Voltage Limit : 30 VDC

Current Limit : 500 mA

RTD/General Signal

Copper Wire, 0.05 Ω/m

Thermocouple

Temperature Compensated Wire for
Type E, J, K, T

ENVIRONMENTAL

Protection Class : IP 65 according to DIN 40050

Temperature

Operating : -40°C to +120°C
Storage : -40°C to +150°C

Humidity

Operating : 0 to 95% non-condensing
Storage : 0 to 100% non-condensing

ORDERING INFORMATION

Part Number / Description

12701	4 Position, Single Row
12702	6 Position, Single Row
12703	8 Position, Double Row
12704	12 Position, Double Row
12705	24 Position, Double Row

Part Number-AA-BB-CC**Option Descriptions****A : Sensor Type**

- 01** : RTD/General
- 02** : TC Type E
- 03** : TC Type J
- 04** : TC Type K
- 05** : TC Type T
- XX** : Custom

B : Mounting Adapter

- 01** : 1/2" PT
- 02** : 3/4" PT
- 03** : 1" PT
- 11** : 1/2" NPT
- 12** : 3/4" NPT
- 13** : 1" NPT
- 21** : M16 x 1.5
- 22** : M20 x 1.5
- 23** : M25 x 1.5
- XX** : Custom

C : Cable Entry

- 01** : 1/2" PT
- 02** : 3/4" PT
- 03** : 1" PT
- 11** : 1/2" NPT
- 12** : 3/4" NPT
- 13** : 1" NPT
- 21** : M16 x 1.5
- 22** : M20 x 1.5
- 23** : M25 x 1.5
- XX** : Custom

Accessories**Mounting Support Bracket****P/N 127-050-400-01**

Used on STB127 heavy terminal box install.

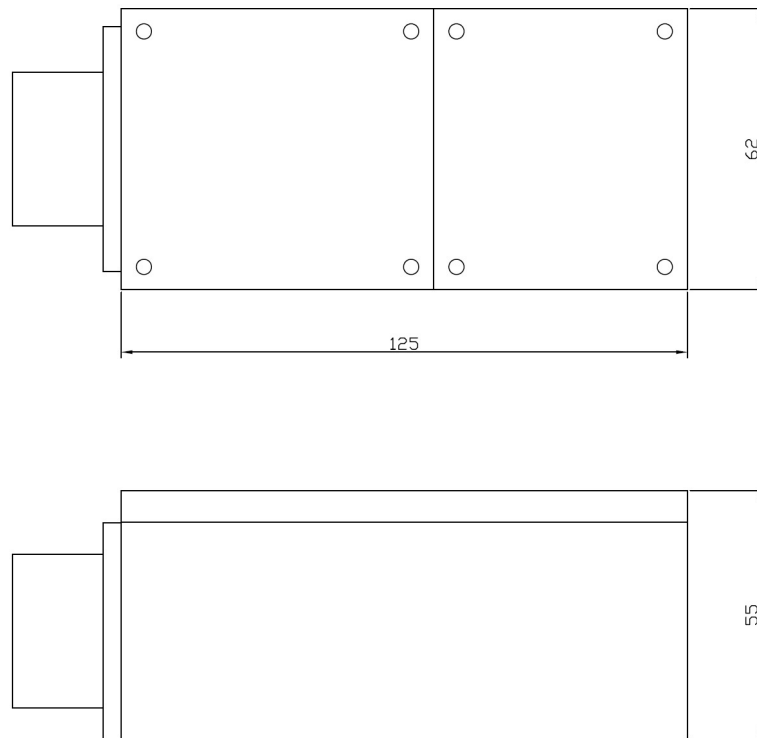


Figure 1. 12701 4 Position Single Row Sealed Terminal Box Dimension

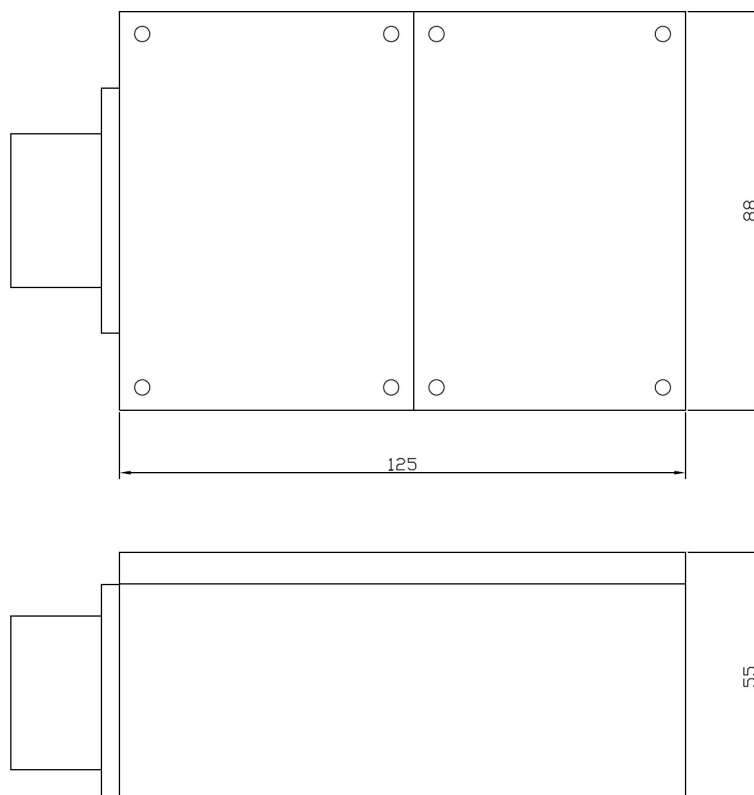


Figure 2. 12702 6 Position Single Row Sealed Terminal Box Dimension

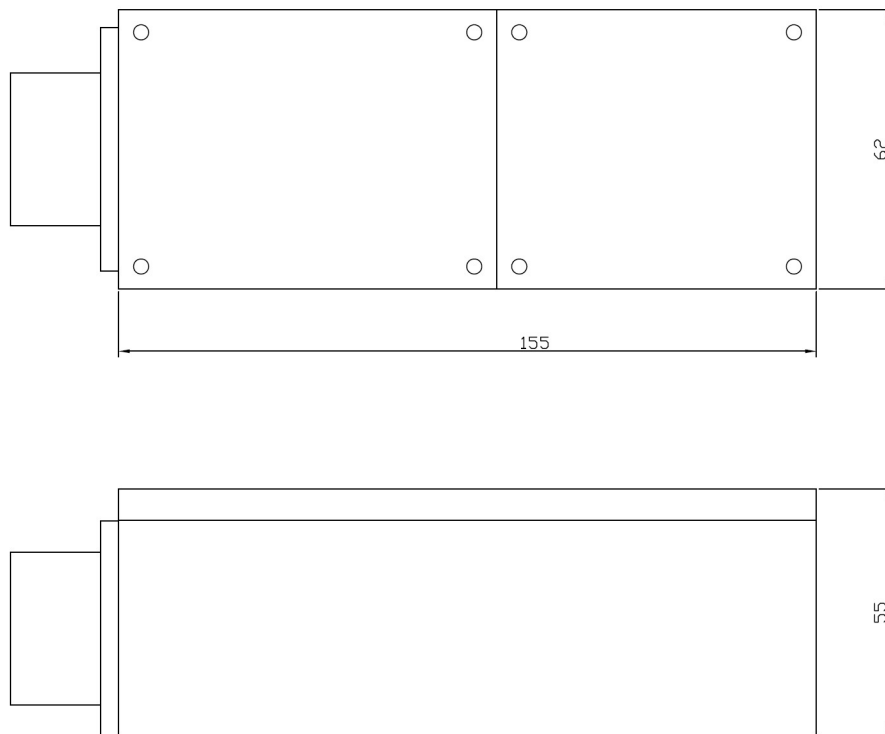


Figure 3. 12703 8 Position Double Row Sealed Terminal Box Dimension

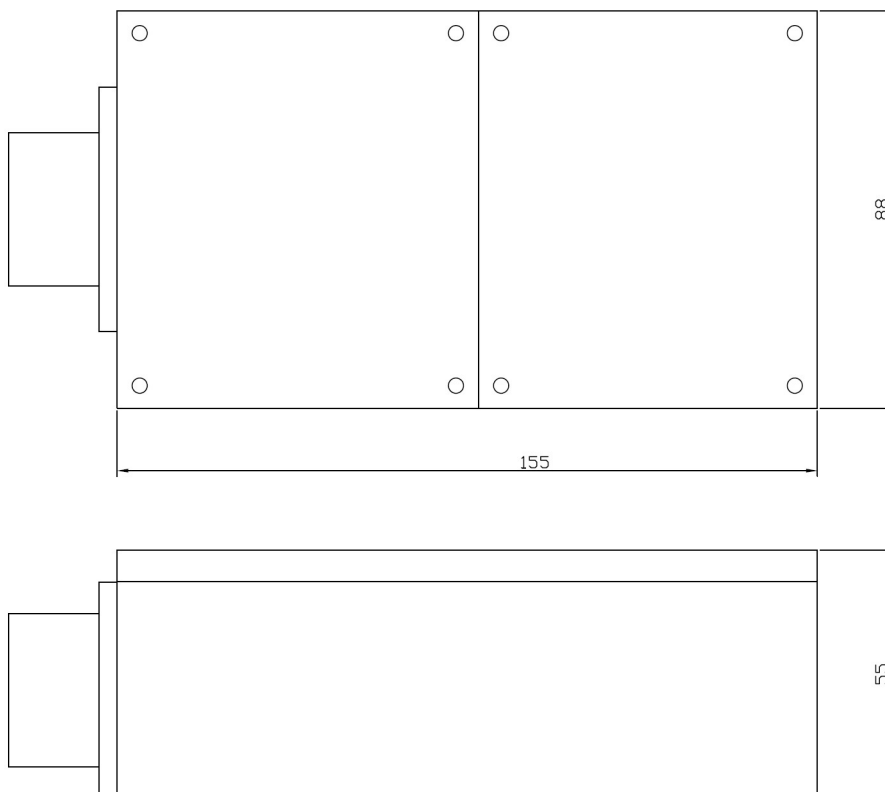


Figure 2. 12704 12 Position Double Row Sealed Terminal Box Dimension

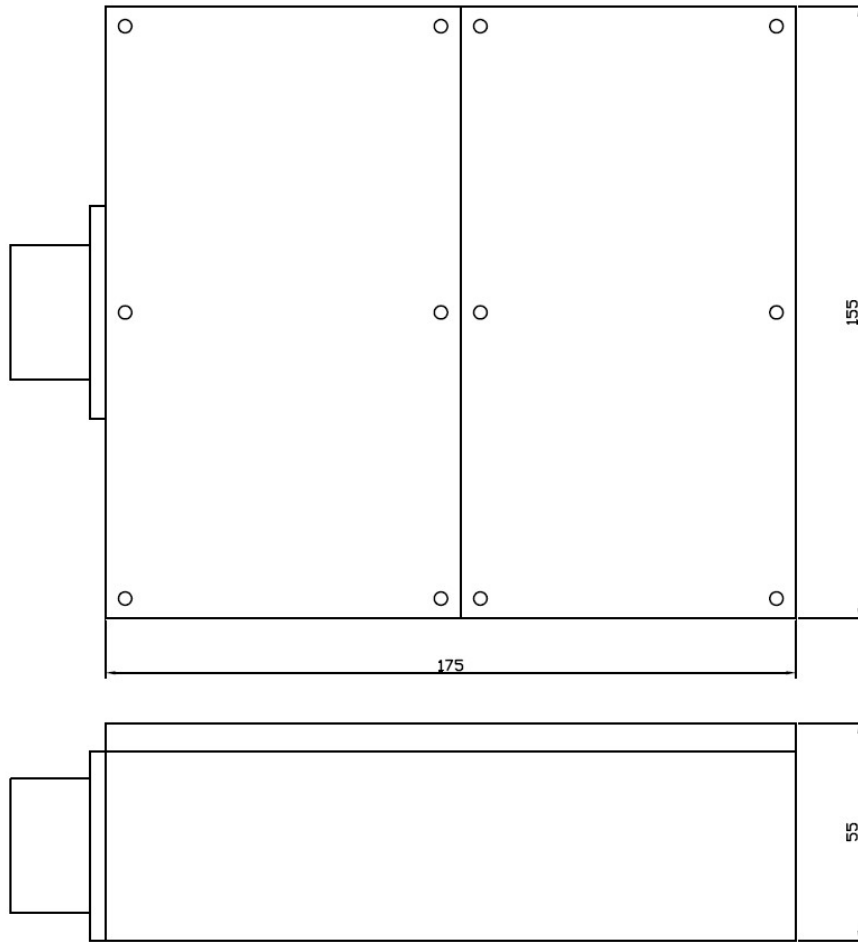


Figure 5. 12705 24 Position Double Row Sealed Terminal Box Dimension