Engineering data sheet

Chapter: Accessories

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Sheet No.: 540353

Junction box for connection of actuator(s), low pressure, pressure switch.

Item numbers covered by this datasheet

540353 Ci Junction box w EOL

General

The junction box is for connection of solenoid (Ci IS8*) and low pressure switch to a control panel with one or two output to actuators. For example, SigmaXT (one actuator output) or the SigmaXT+ (two actuator outputs).

It is possible to connect the End of Line (EOL) resistor (or Diode) in the junction box.

Note, that EOL resistor inside the solenoid Ci IS8B must be removed.

It is also possible to connect other auxiliary devices.

Further details, see the datasheet for a normal junction box: INTEC_540351.

*Ci IS8 is a solenoid from Fire Eater, especially developed to use for activation of valves.

Specifications

Terminals: Springs Default resistors \square

(Use a screwdriver to open the springs) ACT1/ACT2 $2x 6K8\Omega$ (Not for SigmaXT+)

Cable entries: $0.08 - 1.5 \text{ mm}^2$ LEAK $5\text{K}6\Omega$

 $H \times L \times D$ 80x120x56 mm \Box Default resistors are for the SigmaXT control Weight 0.3 kg panel, so there is no fault at the panel.

Box Material (540351) ABS plast.

Box Material (540351-60) PC plast.

Electrical/Power specifications

Ingress protection IP67 Max. Voltage/Current 40V/4A

Cable entry M16 (range 4-8 mm) Max. rising temperature@+25°C +2°C Flammability 540353-60 is (Inside the box, when outputs short at m

540353-60 is (Inside the box, when outputs short at max. current) flammability to UL94

Marking

The box is marked with product information.

Installation

Before installation, the power must be off.

Note, for a control panel with dual outputs (eg. SigmaXT+) the two jumpers J1 and J2 below the terminals to the control panel must be cut.

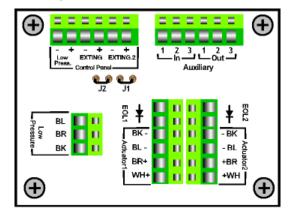
The display (+) and (-) are when the control panel is activated (discharged).

The specified colours for the low pressure are for connections to a manometer, where the 'BL' is only for 'dummy' connection, so that there is no floating wire from the cable, with three wires.

When the wires are connected to the 'spring' terminal, a special tool or a screwdriver at 3.5 mm must be used to 'release' the spring.

The ACTUATOR (1 and 2) is for connections to an actuator with four wires, where the colours from the solenoids are specified. Eg. Ci IS8 series from Fire Eater.

Fig. 1 Junction box board



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Installation continued

Before installation, the power must be off.

Fig. 2 Control panel with one activation output

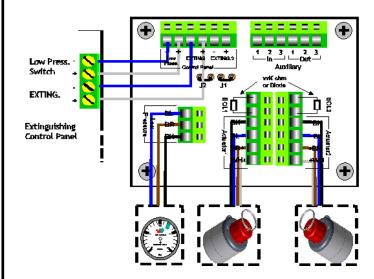
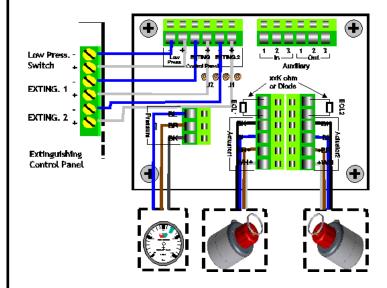


Fig. 3 Control panel with two activation outputs



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Installation continued

Please note, when used with IS8B solenoid and Sigma XT series:

The solenoids are connected to "ACTUATOR 1" and "ACTUATOR 2". (Remember they are polarized, connect '+' to '+' and '-' to '-').

If only one IS8 actuator is connected to "ACTUATOR 1", the "ACTUATOR 2" must be connected with a resistor 6K8 ohm, because of the monitoring for Sigma XT. (If the resistor is not mounted, Sigma XT will show a fault).

If the junction box is connected to a control panel with dual actuator output (fig. 3), the two jumpers J1 and J2 that are placed below the terminals from the control panel, **must be cut.**

If the EOL resistor must be place inside the JB, the EOL inside the solenoid Ci-IS8B must be remove. For removing the EOL resistor at the Solenoid IS8B, the black cover has to be removed. After that, remove the resistor which is place in a socket. Remember to place the black cover again. See also pictures below.

Insert the desired resistor (or diode) in the JB at the terminal EOL1 for actuator 1. The same for actuator 2.

Removing the black cover



Placement of the EOL resistor

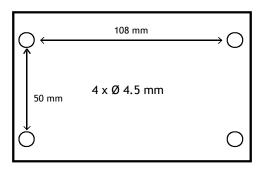


EOL resistor removed

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Fig. 5 Mounting holes.



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