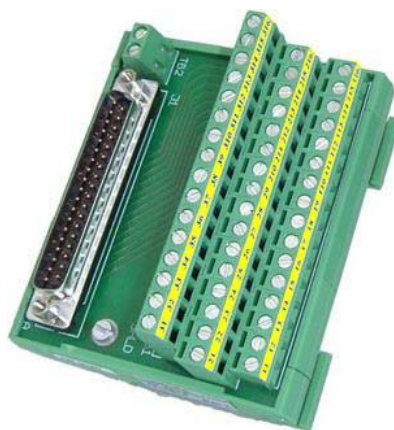


■ INT-61508

16 channels – termination panel for 16 direct safety I/O (SIL3)



Description:

The INT-61508 is a remote Termination Panel that can be used in safety circuit according to IEC61508 (SIL3) and that allows to connect up to 16 direct safety I/O (channel 1 to channel 16), using the 3 rows of terminals .
 The terminals of the lower row (labelled 11,12,13...) are tied together and connected to the mass carrier of the DeltaV SIS, via the cable.
 The terminals of the middle row (labelled 21,22,23...) are dedicated to the return signal (-). They are connected via the cable either to the B or the C terminals of the DeltaV SIS depending on the I/O configuration.
 The terminals of the upper row (labelled 31,32,33...) are dedicated to (+) of the signal. They are connected via the cable to the A terminals of the DeltaV SIS.

Product options:

- Option **ST**: INT-61508-ST: signal connected using Screw Terminals
- Option **CCT**: INT-61508-ST: signal connected using Cage Clamp Terminals or Spring Terminals

R10-2009

Technical specifications:

Dimensions:

Wide : 65 mm
 Length : 90mm
 Depth : 65mm

Weight:

100g

Mounting:

Asymmetric or symmetric DIN rail

Temperature range:

Operating: -10°C to 60°C
 Storage: -20°C to 60°C

Humidity:

Up to 90% (no condensation)

Withstanding voltage rating:

250V rms between non connected Signals.

Connection to the DCS or the PLC:

One SUBD37 pin male connector with UNC 4-40 lock for female connector.

Connection to shield:

One M3 screw

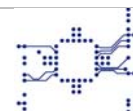
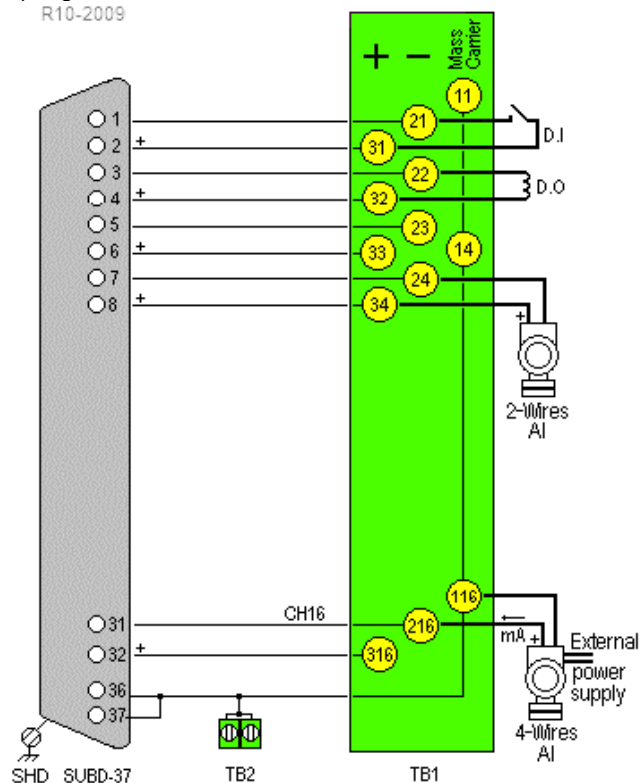
Connection to direct I/O:

Termination block TB1 (1A max)
 Conductor section 26 to 16 AWG
 (0.14 to 1.5mm²)

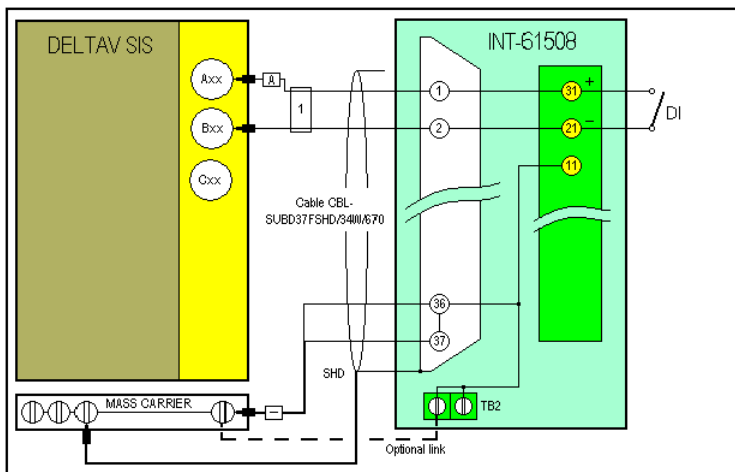
Connection to the field power return (-):

Terminals TB2 (this connection is not mandatory, as it is already done with the cable.

SIL 3, Bureau Veritas approved.

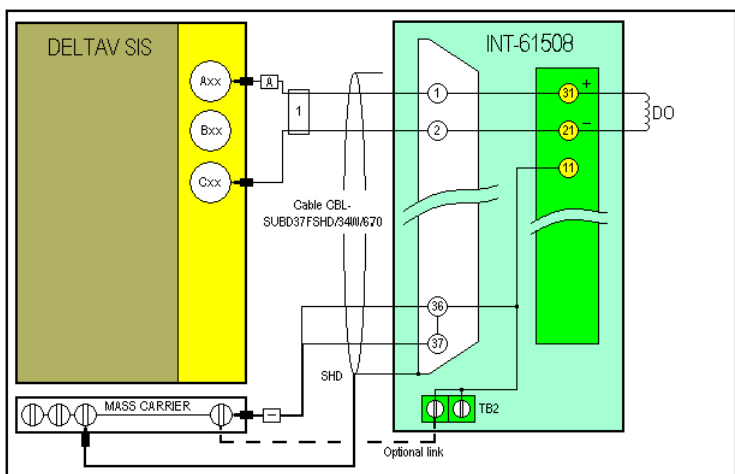


1. FIELD WIRING CONNECTION WITH DELTAV SIS, FOR DIRECT D.I.:



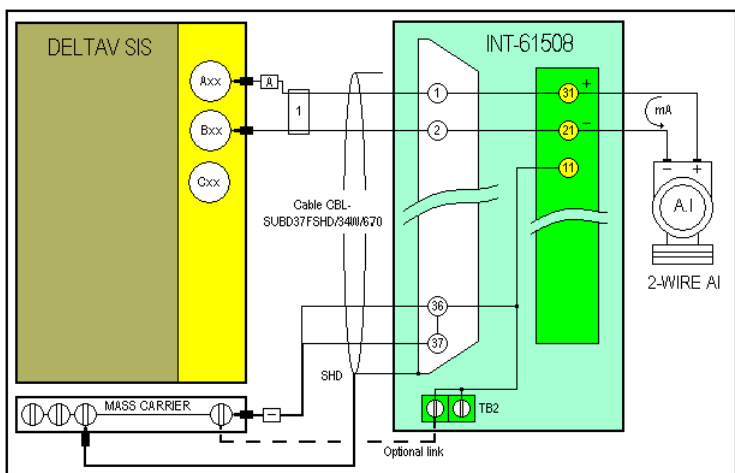
The figure on the left shows the wiring for a Discrete Input connected to channel 1. The cable from INT-61508 interface unit is a 17-twisted pair cable. Sixteen twisted pairs (labeled 1 to 16) are used for the 16 channels, and one pair (labeled -) is used to be connected to the mass carrier. The wire labeled A of each twisted pair is always connected to the terminal A of the DeltaV. The second wire is connected to the B terminal in that case. The link from TB2 to the mass-carrier is optional and must be made if the return current in wires labeled - of the cable exceeds 2A.

2. FIELD WIRING CONNECTION WITH DELTAV SIS, FOR DIRECT D.O

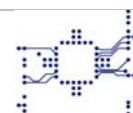


The figure on the left shows the wiring for a Discrete Output connected to channel 1. The cable from INT-61508 interface unit is a 17-twisted pair cable. Sixteen twisted pairs (labeled 1 to 16) are used for the 16 channels, and one pair (labeled -) is used to be connected to the mass carrier. The wire labeled A of each twisted pair is always connected to the terminal A of the DeltaV. The second wire is connected to the C terminal in that case. The link from TB2 to the mass-carrier is optional and must be made if the return current in wires labeled - of the cable, exceeds 2A.

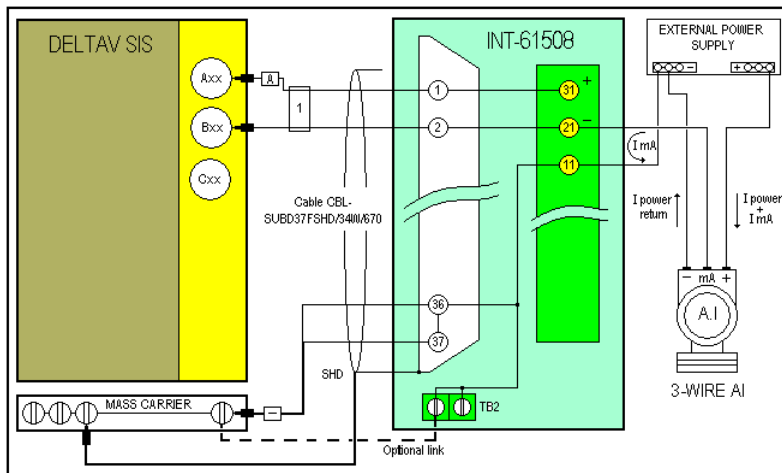
3. FIELD WIRING CONNECTION WITH DELTAV SIS, FOR DIRECT 2-WIRE A.I.:



The figure on the left shows the wiring for a 2-wire 4-20mA Analog Input connected to channel 1. The cable from INT-61508 interface unit is a 17-twisted pair cable. Sixteen twisted pairs (labeled 1 to 16) are used for the 16 channels, and one pair (labeled -) is used to be connected to the mass carrier. The wire labeled A of each twisted pair is always connected to the terminal A of the DeltaV. The second wire is connected to the B terminal in that case. The link from TB2 to the mass-carrier is optional and must be made if the return current in wires labeled - of the cable, exceeds 2A.



4. FIELD WIRING CONNECTION WITH DELTAV SIS, FOR DIRECT 3-WIRE A.I.:



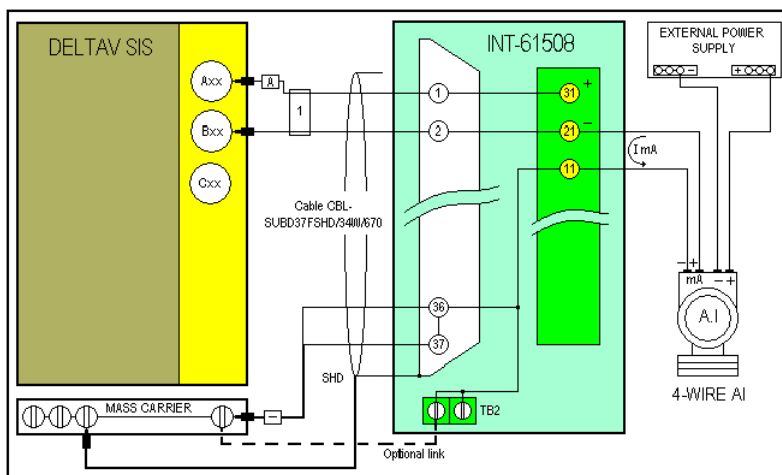
The figure on the left shows the wiring for a 3-wire 4-20mA Analog Input connected to channel 1.

The cable from INT-61508 interface unit is a 17-twisted pair cable. Sixteen twisted pairs (labeled 1 to 16) are used for the 16 channels, and one pair (labeled -) is used to be connected to the mass carrier.

The wire labeled A of each twisted pair is always connected to the terminal A of the DeltaV. The second wire is connected to the B terminal in that case.

The link from TB2 to the mass-carrier is optional and must be made if the return current in wires labeled - of the cable, exceeds 2A. Be careful to follow the recommendation of wiring to avoid high power current in cable.

5. FIELD WIRING CONNECTION WITH DELTAV SIS, FOR DIRECT 4-WIRE A.I.:



The figure on the left shows the wiring for a 4-wire 4-20mA Analog Input connected to channel 1.

The cable from INT-61508 interface unit is a 17-twisted pair cable. Sixteen twisted pairs (labeled 1 to 16) are used for the 16 channels, and one pair (labeled -) is used to be connected to the mass carrier.

The wire labeled A of each twisted pair is always connected to the terminal A of the DeltaV. The second wire is connected to the B terminal in that case.

The link from TB2 to the mass-carrier is optional and must be made if the return current in wires labeled - of the cable, exceeds 2A.

