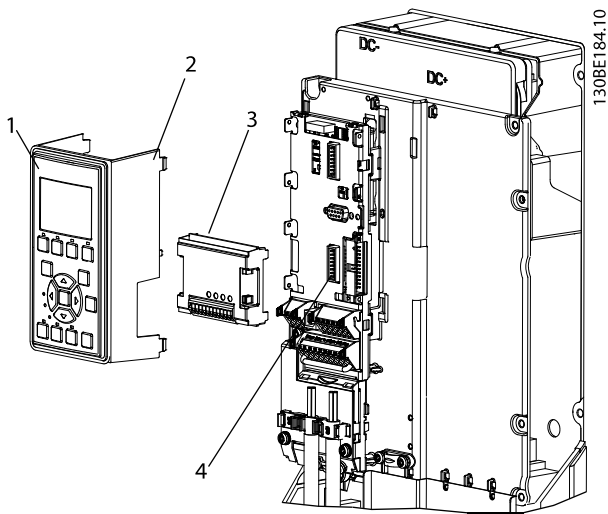


Enclosure sizes A5, B1, B2, B4, C1, C2, C3, C4, D, E, and F

1. Remove the LCP (local control panel) and the LCP cradle.
2. Fit the option card into slot B.
3. Connect the control cables and relieve the cable. See *Illustration 1.4* and *Illustration 1.5* for details about wiring.
4. Fit the cradle on the frequency converter.
5. Fit the LCP in the cradle.



1	LCP
2	LCP cradle
3	Option
4	Slot B

Illustration 1.3 Installation in Other Enclosures Sizes (Example)

Galvanic Insulation

Galvanically isolate the sensors from the mains voltage level.
 Safety demands: IEC 61800-5-1 and UL 508C.

Wiring

Wiring of VLT® Sensor Input MCB 114.

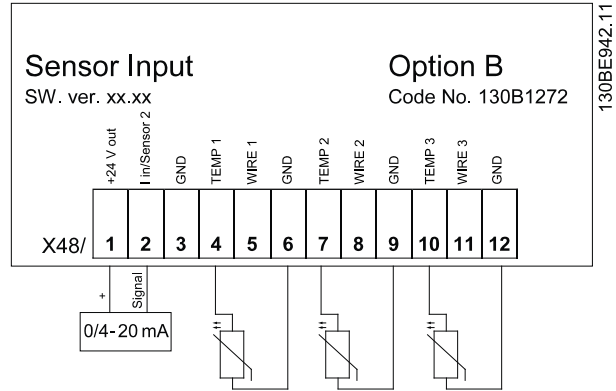


Illustration 1.4 2-Wire Sensors

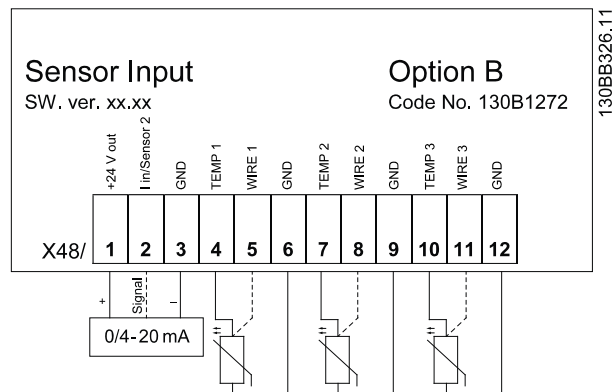


Illustration 1.5 3-Wire Sensors

Terminal	Name	Function
1	VDD	24 V DC to supply 0/4–20 mA sensor
2	I in	0/4–20 mA input
3	GND	Analog input GND
4, 7, 10	Temp 1, 2, 3	Temperature input
5, 8, 11	Wire 1, 2, 3	3 rd wire input if 3 wire sensors are used
6, 9, 12	GND	Temperature input GND

Table 1.5 Legend table for *Illustration 1.4* and *Illustration 1.5*

Cabling

Maximum signal cable length is 500 m (1640 ft).

Electrical and Mechanical Specifications

The option is able to supply the analog sensor with 24 V DC (terminal 1).

Number of analog inputs	1
Format	0–20 mA or 4–20 mA
Wires	2 wires
Input Impedance	<200 Ω
Sample rate	1 kHz
3 rd order filter	100 Hz at 3 dB

Table 1.6 Analog Input

Number of analog inputs supporting PT100/1000	3
Signal type	PT100/PT1000
Connection	PT100 2 or 3 wire PT1000 2 or 3 wire
Frequency PT100 and PT1000 input	1 Hz for each channel
Resolution	10 bit
Temperature range	-50 to +204 °C -58 to +399 °F

Table 1.7 Temperature Sensor Input

Configuration

- The 3 sensor inputs support 2 and 3 wire sensors and an auto detection of sensor type, PT100 or PT1000 takes places at power-up.
- The analog input is capable of handling 0/4–20 mA.

For programming of the parameters, see the product-specific *programming guide*, *parameter group 35-** Sensor Input Option* and *parameter group 18-3* Analog Readouts* with data readouts in *parameter 18-36 Analog Input X48/2 [mA]* to *parameter 18-39 Temp. Input X48/10*.

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