



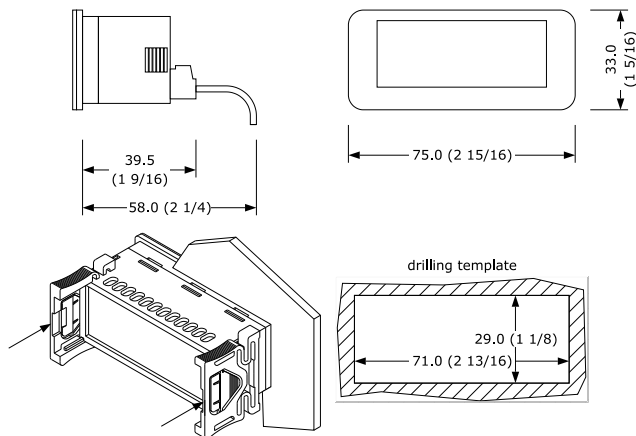
**PLEASE READ CAREFULLY**  
and save this document  
**CONSIDER THE ENVIRONMENT**

**EN ENGLISH**

- 12 VAC/DC power supply not insulated
- alarm buzzer
- CAN port.

**1 MEASUREMENTS AND INSTALLATION**

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.



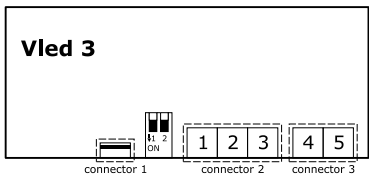
**INSTALLATION PRECAUTIONS**

- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in)
- Ensure that the working conditions are within the limits stated in the *TECHNICAL SPECIFICATIONS* section
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

**2 ELECTRICAL CONNECTION**

- N.B.**
- Use cables of an adequate section for the current running through them
  - Connect to a CAN network by using a twisted pair.

**2.1 Connectors**



Description of connectors.

**Connector 1**

Reserved EVCO.

**Connector 2**

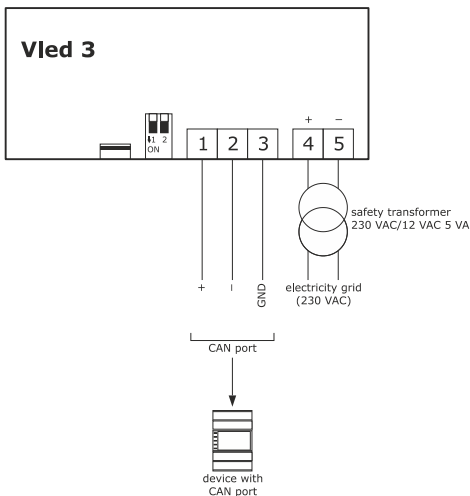
No.	DESCRIPTION
1	signal + CAN port
2	signal - CAN port
3	reference (GND)

**Connector 3**

No.	DESCRIPTION
4	device power supply (12 VAC/DC). If the device is fed by DC power, connect terminal plus
5	device power supply (12 VAC/DC). If the device is fed by DC power, connect terminal minus

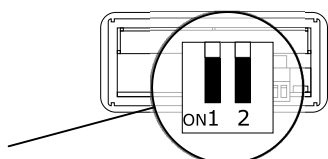
**2.2 Electrical connection**

Example of electrical connection.



**2.3 Fitting the termination resistor of CAN network**

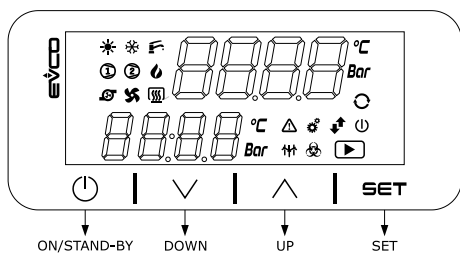
To fit the CAN network termination resistor, place micro-switch 2 in position ON. Micro-switch 1 is reserved EVCO.



**PRECAUTIONS FOR ELECTRICAL CONNECTION**

- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section *TECHNICAL SPECIFICATIONS*
- Disconnect the power supply before doing any type of maintenance
- Do not use the device as safety device
- For repairs and for further information, contact the EVCO sales network.

**3 USER INTERFACE**



**3.1 Device configuration**

**N.B.**  
Turn off the power after changing the configuration.

Accessing the procedure.

- Touch the DOWN key for 6 s.  
The display will show:  
Upper line: **Can**  
Lower line: **Stat**

Showing the CAN address of the device.

- Touch the DOWN key.  
The display will show:  
Upper line: **Loc**  
Lower line: CAN address of the device (1... 127).

Showing the device status.

- Touch the DOWN key.  
The display will show:  
Upper line: **Loc**  
Lower line: device status (OK... Err).

Setting the CAN address of a device in the network.

- Touch the UP or DOWN key to select a node.  
The display will show:  
Upper line: node (n1... n32)  
Lower line: CAN address of the device (1... 127).
- Touch the SET key.  
The display will show:  
Upper line: node (n1... n32)  
Lower line: CAN address of the device flashing (1... 127).
- Touch the UP or DOWN key to set the value.
- Touch the SET key.

Showing the status of a device in the network.

- Touch the UP or DOWN key to select a node.  
The display will show:  
Upper line: node (n1... n32)  
Lower line: device status (OK... Err).

Accessing the menu.

- Touch the SET key.  
The display will show:  
Upper line: **CPrO**  
Lower line: **ULEd**
- Touch the UP or DOWN key to select a menu.  
The display will show:  
Upper line: **Menu**  
Lower line: menu name (PAR, nEt, diAG or InFo).
- Touch the SET key.

Setting configuration parameters of menu "PAR".

- Touch the UP or DOWN key to select a parameter.
- Touch the DOWN key.
- Touch the SET key.  
The display will show:  
Upper line: the parameter  
Lower line: the parameter value
- Touch the UP or DOWN key to set the value.
- Touch the SET key.

Setting configuration parameters of menu "nEt".

- Touch the SET key.  
The display will show:  
Upper line: **PU 6**  
Lower line: **0**
- Touch the SET key again.  
The display will show:  
Upper line: **PU 6**  
Lower line: a value flashing
- Touch the UP or DOWN key to set "-19".
- Touch the SET key.  
The display will show:  
Upper line: **Can**  
Lower line: **nEt**
- Touch the UP or DOWN key to select a parameter.  
The display will show:  
Upper line: the parameter  
Lower line: the parameter value
- Touch the SET key.  
The display will show:  
Upper line: the parameter  
Lower line: the parameter value flashing
- Touch the UP or DOWN key to set the value.
- Touch the SET key.

Returning to the previous displays.

- Touch the ON/STAND-BY key a few times.

**4 CONFIGURATION PARAMETERS**

N.	PAR.	DEF.	"PAR" MENU	MIN... MAX.
1	dAtE SEP	47	kind of data separator	0... 127 ASCII character
2	YEAR ForM	0	kind of year format	YYYY YY
3	dAtE ForM	dMY	kind of data format	dMY MdY YmD
4	tIME SEP	58	kind of time separator	0... 127 ASCII character
5	tIME SEc	nO	enable seconds displaying	nO YES
6	AM PM	nO	enable 24 h format displaying	nO YES
7	IO tOut	60	remote I/O disable delay from lack of CAN communication	0... 100 s
8	buZZ KEY	nO	enable buzzer touching the keys	nO YES
9	PSV tOut	240	password timeout	10... 240 s
10	tOut rEFr	0	pages refresh timeout	0... 100 s
11	PPdo tX1	YES	enable compatibility with c-pro series	nO YES
12	Forc	nO	system forced to CAN communication	nO (all) neW (new system) Old (old system)

N.	PAR.	DEF.	"nEt" MENU	MIN... MAX.
13	nodE	1	CAN address	1... 127
14	MASt	YES	enable operation as master	nO YES
15	bAud	20K	CAN baud rate	20K 50K 125K 500K Auto
16	tOut	60	exclusion of a CAN network device delayed from lack of communication	0... 240 s
17	nEt n	1	logic node	1... 32
18	n nd	1	physical node linked to the logic node	0... 127

N.	PAR.	DEF.	"morE" SUBMENU (READ ONLY)	MIN... MAX.
19	n rH	-	number of received packages	0... 9999
20	n tH	-	number of transmitted packages	0... 9999
21	nOuF	-	number of intercepted overflow	0... 9999
22	nPAS	-	number of intercepted passive	0... 9999
23	bOFF	-	number of intercepted bus off	0... 9999
24	rHOY	-	number receipts ok	0... 9999
25	tHOY	-	number of transmissions ok	0... 9999
26	tHEr	-	number of transmissions in error	0... 9999
27	rHEr	-	number of receipts in error	0... 9999
28	StuF	-	number stuff errors	0... 9999
29	ForM	-	number form errors	0... 9999
30	nAcK	-	number ack errors	0... 9999
31	bit1	-	number bit1 errors	0... 9999
32	bit0	-	number bit0 errors	0... 9999
33	nCrC	-	number CRC errors	0... 9999

N.	PAR.	DEF.	"diAG" MENU (READ ONLY)	MIN... MAX.
34	E2	-	EEPROM memory status	OK... Err

N.	PAR.	DEF.	"InFo" MENU (READ ONLY)	MIN... MAX.
35	VEr	-	firmware version	-
36	rEv	-	firmware revision	-
37	SubV	-	firmware underversion	-
38	Prj	-	project number	-
39	VAr	-	project change	-
40	PrEv	-	project revision	-
41	d.m	-	data and time project release	-

**5 TECHNICAL SPECIFICATIONS**

Purpose of the control device:	Function controller.
Construction of the control device:	Built-in electronic device.
Container:	Black, self-extinguishing.
Category of heat and fire resistance:	D.
Measurements:	75.0 x 33.0 x 39.5 mm (2 15/16 x 1 5/16 x 1 9/16 in.).
Mounting methods for the control device:	To be fitted to a panel, snap-in brackets provided.
Degree of protection provided by the covering:	IP65 (front).
Connection method:	Plug-in screw terminal blocks for wires up to 2.5 mm <sup>2</sup> Female Micro USB connector.
Maximum permitted length for connection cables:	Power supply: 10 m (32.8 ft)
CAN port:	1,000 m (3,280 ft), baud rate: 20,000 baud 500 m (1,640 ft), baud rate: 50,000 baud 250 m (820 ft), baud rate: 125,000 baud 50 m (164 ft), baud rate: 500,000 baud
Operating temperature:	From 0 to 55 °C (from 32 to 131 °F).
Storage temperature:	From -20 to 70 °C (from -4 to 158 °F).
Operating humidity:	Relative humidity without condensate from 5 to 95%.
Pollution status of the control device:	2.
Compliance:	
RoHS 2011/65/EC	WEEE 2012/19/EU
REACH (EC) Regulation no. 1907/2006	EMC 2014/30/EU.
Power supply:	12 VAC/DC 5 VA not insulated 12 VDC (±15%), max. 5 W not insulated.
Earthing methods for the control device:	None.
Rated impulse-withstand voltage:	4 KV.
Over-voltage category:	III.
Software class and structure:	A.
Displays:	Double custom display, 4 + 4 digit, with function icons.
Alarm buzzer:	Built-in.
Communication ports:	1 CAN port.

