

CAN-Bus-capable accessory modules type PLVC-CAN

for systems with programmable valve control type PLVC

See also other electronic valve controls:
Type PLVC 16 acc. to D 7845
Type PLVC 4 acc. to D 7845-4
Type PLVC 2 acc. to D 7845-2

1. General information

The functionality of the valve controls type PLVC 2 (with extensions), PLVC 4, and PLVC 16 can be extended by different CAN-Bus accessory modules.

- PLVC-CAN-BC: Small display for diagnosis and user-defined text information
- PLVC-CAN-AN: Analog Knot with LED indicators, potentiometer and Emergency-Stop switch
- PLVC-CAN-POW: Power knot with 8 relays

2. Available Versions

2.1 Board computer type PLVC-CAN-BC

Specifications of the connections

Connector rail	Function	Description	Parameter
X1	- Power supply	Rated voltage U_N Max. total current (power)	10 ... 30 VDC 5 A
	- Interface CAN-Bus		100, 125, 250 kBaud

2.2 Analog knot type PLVC-CAN-AN1 and PLVC-CAN-AN2

Specifications of the connections

Connector rail	Function	Description	Parameter
X1	- Power supply	Rated voltage U_N Max. total current (power)	10 ... 30 VDC 5 A
	- Relay outputs 1, 2, 3 can be switched via CAN-Bus	Voltage range Max. current	10 ... 30 VDC / max. 1 A
X2	- Interface CAN-Bus		max. 250 kBaud

- Type PLVC-CAN-AN1 - 2 potentiometer + Emergency-Stop
- Type PLVC-CAN-AN2 - 3 potentiometer

2.3 Power relay type PLVC-CAN-POW

Specifications of the connections

Connector rail	Function	Description	Parameter
X1	- Interface CAN-Bus		100, 125, 250 kBaud
X30	- Power supply	Rated voltage U_N Max. total current (power)	10 ... 30 VDC 5 A
X3	- Relay outputs 1 - 8 can be switched via CAN-Bus 6 x change-over contact 2 x ON/OFF	Voltage range Max. current	10 ... 30 VDC / max. 15 A

3. General data

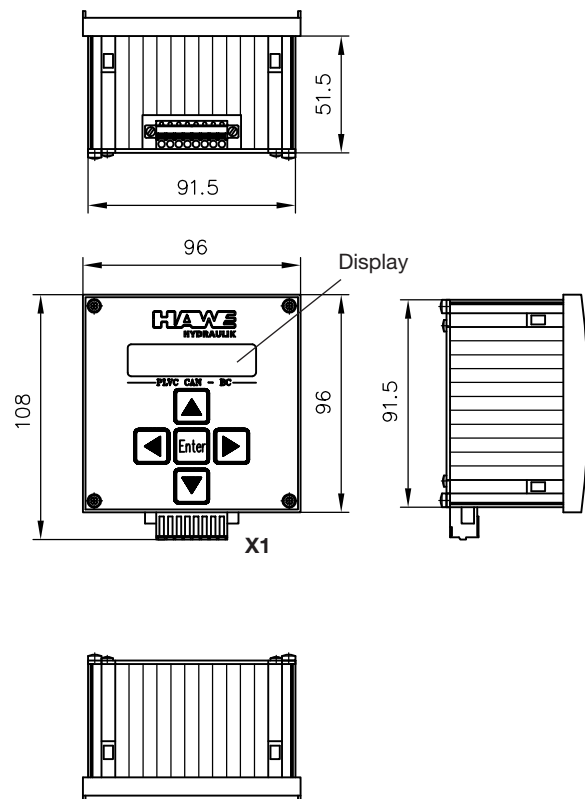
Casing, protection class	IP 20 acc. to DIN EN 60529 / IEC 60529
Temperature range	-40°C to +80°C
Power supply	10 VDC to 30 VDC
Max. total current	5 A
Required external fusing	5 A (slow blow)
Protection	Reverse polarity protection Load dump protection (DIN 40839) Shock proof (vibration: ICE 68-2-6, shock: ICE 68-2-27) EMV (EN 50081-1, EN 50081-2, EN 58082-1, EN 58082-2)
Monitoring	Short-circuit under-voltage, and over-voltage
Cable connections	by means of spring-charge connector Phönix type FK-MCP

PLVC-CAN-POW

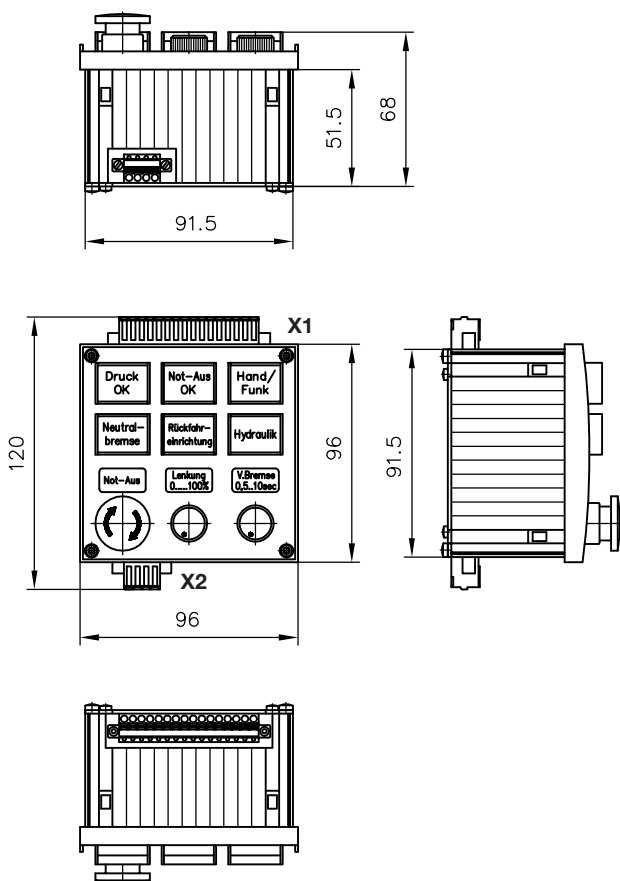
- Power supply:	Blade type terminals 6.3 mm
- Relay outputs:	Blade type terminals 2.8 mm

4. Dimensions

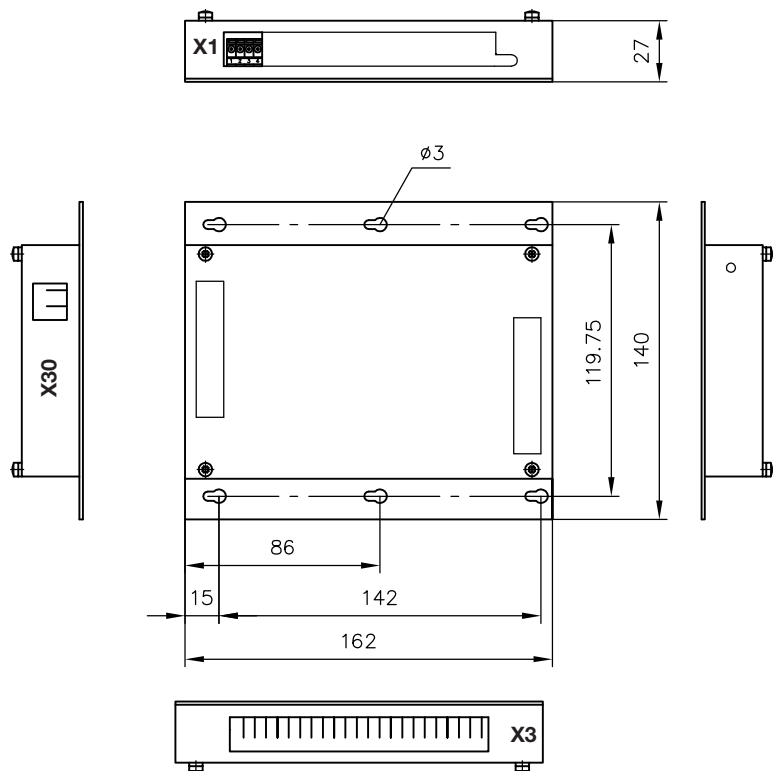
Type PLVC-CAN-BC



Type PLVC-CAN-AN1, PLVC-CAN-AN2



Type PLVC-CAN-POW



5. Notes

The scope of delivery for the programmable logic valve control type PLV includes an operating system and - on special agreement - a customized software. It is the duty of the customer to test the requested functionality of the PLVC as he is responsible for the safety of the whole system, the faultless operation and final application of the PLVC.

Attention: Whenever a PLVC is replaced it is additionally necessary to order the current version of the software including the operation parameter by the manufacturer of the machine.

The customer is responsible to take care that the requested functionality and safety of the application program is fulfilled. When local laws make an approval by a notified body (testing or approval organization) necessary the customer has to apply for it.

6. Installation notes

Electrical connection/ Grounding:	To guarantee the electrical interference protection of the controller, the housing must be connected to GND. Ground connection has to be carried out on the shortest way between housing and machine and independent of the minus connection to the module.
Safety instructions:	This description is part of the unit. It contains texts and drawings concerning the correct handling of the controller and must be read before installation or use. Observe the information of the description. Non-observance of the notes, operation which is not in accordance with use as prescribed below, wrong installation or handling can result in serious harm concerning the safety of persons and plant. The instructions are for authorised persons according to the EMC and low voltage guidelines. The controllers must be installed and commissioned by a skilled electrician (programmer or service technician). The wiring has to comply with the respective standards and has to be galvanically separated from other circuits. The devices connected at the terminals have to be approved by HAWE Hydraulik GmbH & Co. KG and the signals fed have to comply with the specifications in this pamphlet. The device may be used in a temperature range (-40°C to +80°C). Due to the additional self-heating the housing walls can have high perceptible temperatures when touched in hot environments. In case of malfunctions or uncertainties please contact the manufacturer (tech_support@hawe.de). Tampering with the unit can lead to considerable risks for the safety of persons and plant. It is not permitted and leads to the exclusion of any liability and warranty claims.
Note:	Prior to any welding at the machine (vehicle) all PLVC-devices must be disconnected from their power supply i.e. both terminals (+ and -) respectively a potential separation (electrical isolation) must be ensured.