



## General

The BTM 09V is a full-graphics HMI especially designed for tasks such as controlling, entering parameters and operating in the harsh environment of vehicles and self-propelled machines. It complies with the applicable safety requirements as to ambient temperatures, tightness, shock, vibration and electromagnetic compatibility (EMC). It can also be installed outside the driver's cab. The totally-enclosed body of the BTM 09V is made of cast aluminum and equipped with a Goretex® membrane for pressure compensation. This way, all sides of the enclosure meet IP65.

The keyboard has a "night design" to light the keys. The display brightness and key lighting can be adjusted in the application program according to the ambient brightness. If automatic brightness control is enabled, adaptation to the lighting conditions is automatically controlled by a light sensor. The keys are ergonomically arranged which offers the option to display a description of the related function on the screen.



On the rear of the device there are 3 waterproof plugs/sockets and the venting element to equalize pressure.

A CAN interface to ISO 11898 2.0B has been applied to the 5-pin M12 plug.

The power supply of the device has been applied to the 3-pin M8 plug.

The 5-pin M12 socket has been designed to have a composite color video input for PAL or NTSC.

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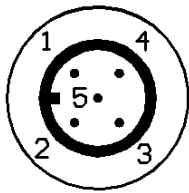
Phone - Switchboard: ++49 7141/2550-0  
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## Technical Specifications

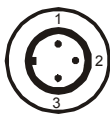
Display:	Color LCD flat screen, 5.7", 640 x 385 pixels
Operating voltage:	9 ... 32 VDC 1 A typical input current at 12 VDC 600 mA typical input current at 24 VDC
Connections:	5-pin male connector M12 - CAN interface 3-pin male connector M8 - operating voltage 5-pin female connector M12 - video input (option)
Keyboard:	15 illuminated keys (night design)
Dimensions	200 x 137 x 60 mm (W x H x D)
Operating temperature:	-20 ... 60 °C
Storage temperature:	-30 ... 70 °C
Video input	CVBS for PAL or NTSC

## Contact Assignment



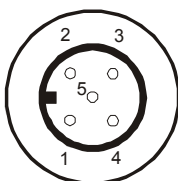
CAN interface (5-pin male connector M12)

- 1 Ground
- 2 -
- 3 -
- 4 CAN-H
- 5 CAN-L



Power supply (3-pin male connector M8)

- 1 + VDC
- 2 NC
- 3 GND



CVBS - video input (5-pin socket M12)

- 1 Ground
- 2 NC
- 3 NC
- 4 Video In H
- 5 Video In L

**Item No: C118**

Key Codes:



Cut-out:

