



Weigl
WEMC-MD
Version 1.01

Instruction Manual



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Weigl Works, LLC is the exclusive North American distributor of Weigl-EM products

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1 Important Information and Safety Tips

The Weigl WEMC-MD Motion Detector is an electronic device that can fail, in part or in full despite careful testing. Therefore, it must not be used in applications where personal safety could be at risk due to the malfunction of the device.

Weigl equipment is generally not designed, intended, authorized or warranted to be suitable in life support applications, devices, systems, or other critical applications. Inclusion of Weigl equipment in such applications is understood to be the full risk of the customer.

Weigl assumes no liability for applications assistance, customer produced design, software performance or infringements of patents or copyrights.

Weigl does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right of Weigl covering or relating to any combination, machine or process in which Weigl products or services might be or are used. The WEMC-MD Motion Detector must not be directly connected to voltages greater than 24V.

It is important to read this manual and familiarize yourself with the function of the WEMC-MD Motion Detector before working with the device. Failure to do so may cause damage to the WEMC-MD Motion Detector or connected components.

Important Information and Safety Tips

Only experienced personnel should connect the WEMC-MD Motion Detector to other systems that comply with required safety regulations.

External power sources connected to the WEMC-MD Motion Detector must not exceed the maximum allowable voltage (24V) and must be protected accordingly. In addition, correct polarity must be utilized to avoid damage to the WEMC-MD Motion Detector. Failure to do so will void the warranty and Weigl Works, LLC or Weigl will not be liable for any resulting damages.

When connecting solenoids, a freewheeling diode for each solenoid is required. They should be mounted as close as possible to the solenoid. Please refer to the wiring diagram in the manual. If this is not observed, the output driver will be destroyed and will void the warranty.

The WEMC-MD Motion Detector should not be exposed to extreme heat or humidity before, during or after installation. If the device is used for outdoor installations, it must be protected with proper weather proofing enclosures. Direct sunlight may also lead to overheating.

Damages caused by improper handling, improper wiring or improper use will void warranty and Weigl Works, LLC or Weigl-EM will not be held liable.

2 Warranty

The Weigl WEMC-MD Motion Detector has a warranty period of 24 months from the original date of purchase. The warranty applies only to the original purchaser and is non-transferable.

The warranty covers parts that have been determined defective due to manufacturing or material defects and will be replaced or repaired. The replaced or repaired part(s) do not affect the warranty and the warranty will still expire 24 months from the original date of purchase. Damaged parts will not be returned. Any further legal claims, in particular those for compensation for direct or indirect damages are excluded from the warranty.

The customer will pay all shipping costs to and from Weigl Works, LLC or Weigl should parts be repaired or replaced in the WEMC-MD Motion Detector. The transport of the ProCommander is at the risk of the customer.

If a repair order was issued, but no fault could be detected, we reserve the right to charge service and diagnostic fees.

Excluded from the warranty are:

- ✓ Damage from natural causes such as fire, lightning, water damage, etc.
- ✓ Damage caused by errors in installation
- ✓ Damage caused by tampering with the device by persons not expressly authorized by Weigl Works, LLC or Weigl to do so

Warranty

- ✓ By not following the instructions (i.e. connection to the wrong voltage or incorrect input or output circuit)
- ✓ Damage caused by negligent handling, misuse, or improper use of WEMC-MD Motion Detector.

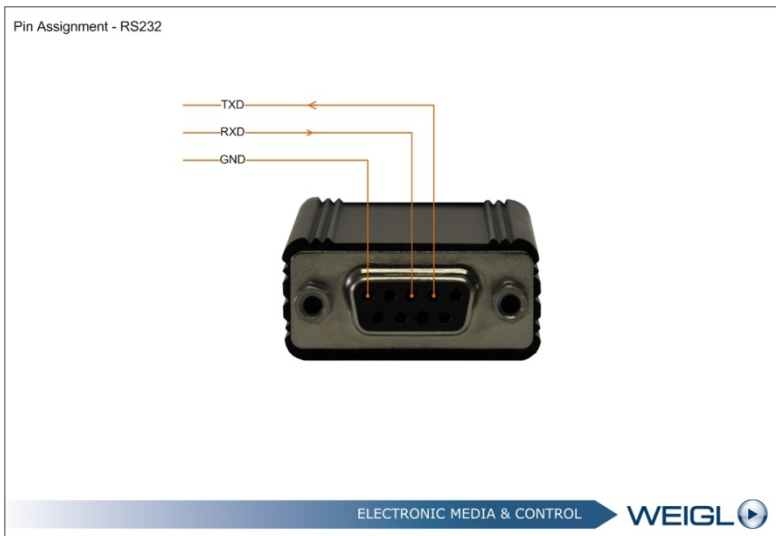
3 Introduction

The WEMC-MD Motion Detector is a freely programmable [RS232](#) interface. Up to sixteen matrixed connection or eight direct connections can be utilized. Using a terminal program for each key input can be any serial command to be programmed. Several commands, separated as required by wait commands can be assigned to a switch input. This allows, for example a button on a video projector to be turned on automatically and after a programmable delay the projector is turned off again.

4 Pin assignment

4.1 RS232 (9-pin D-SUB connector)

The pin assignments of the serial interface correspond to the assignment of the serial connector of a computer. To connect to a computer is therefore achieved through a null modem cable (2.3) to be used.



5 Programming

The programming of the WEMC-MD Motion Detector is via a terminal program. The command sequences can be prepared using the terminal program directly to the WEMC-MD Motion Detector, or be transmitted in a text file.

The following commands are available

Befehl	Name	Parameter	Beispiel	Info
! ?#	Info Abfrage		! ?#	Statusanzeige: Mit diesem Befehl kann die aktuelle Konfiguration abgefragt werden.
!scc.#	Set RS232 Configuration	RS232-ID: 1; Configuration: Baud: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200; Daten-Bits : 5-8; Parity: Even, Odd, No parity; Stopbits: 1-2.	!scc1=9600,8N1# !scc1=115200,7E2# !scc1=57600,8O1#	RS232: 9600Baud, 8 Datenbits, Kein Parity, 1 Stopbit. RS232: 115200Baud, 7 Datenbits, Gerade Parity, 2 Stopbits. RS232: 57600Baud, 8 Datenbits, Ungerade Parity, 1 Stopbit.
!ewt...#	Wait	Zeit in Sekunden; Bereich: 1 -- 65535 Sekunden	!ewt10# !ewt65000#	Wartezeit: 10 Sekunden Wartezeit: 18 Stunden, 3 Minuten, 20 Sekunden.
!ekm...#	Key mask	Key Maske, linksbündige Auswertung	!ekm1111111111111111# !ekm1011# !ekm0000000000000000#	Alle 16 Eingänge sind freigeschaltet. Eingang 1,3 und 4 ist freigeschaltet, 2 ist gesperrt. Die übrigen Eingänge werden nicht beeinflusst. Alle 16 Eingänge sind gesperrt.
!i1clesd....#	Input x close	x: Eingangs ID von 1 bis 16; gefolgt von weiteren Kommandos	!i1clesd 0xFF 0xAA 0xBB "iTest1" 0xCC 0xDD !ewt:100 !esd 0x02 "Test2" 0x0D 0x0A#	Siehe Beschreibung auf den folgenden Seiten.
!fce#	Clear EEPROM		!fce#	Löscht alle Informationen, die im EEPROM gespeichert sind.
!fkm...#	Set KeyMode	p: parallel m: matrix	!fkm:p# !fkm:m#	Setzt den Eingabemodus für eine parallele Verkabelung. Setzt den Eingabemodus für eine 4x4 Tastaturmatrix.

Example of a configuration file

! fce #

! l1C! esd: 0xFF 0xAA 0xBB „1test1“ 0xCC
0xDD!ewt:10!esd:0x02 „Test2“ 0x0D 0x0A #

! fkm: m #

! SCC1 = 115,200.8 N1 #
