

## MSI-m, MSI-mx

### Frequently Asked Questions

The MSI does not work (i.e. no LEDs are lit up).

- Check the supply voltage at terminal 4 (+24V) and terminal 9 (0V).

The system is not enabled when the start button is pressed and then released (i.e. the LEDs for locked, state and fault light up).

- Are the LEDs S1 & S2 on the MSI lit up green?  
If the above LEDs are lit up green, the optoelectronic protective devices (AOPDs) and safety switches are correctly wired.  
If not, please have regard to the following points.
- Make sure that the optoelectronic protective devices are properly aligned and/or that the safety switches are closed.
- Check the wiring between the AOPDs, the safety switches and the MSI.  
Have you connected all remaining safety inputs with the corresponding test signal by means of bridges?
- Check the operating mode you have selected (with/without restart interlock, with/without relay monitoring) with the required cabling at terminal 13,14 of the MSI (pp. 14-16) and the corresponding DIP switch setting.
  - Operating mode with start/restart interlock and static relay monitoring
  - Terminal 13 via start button to +24V (no test bridge)
  - Terminal 14 via feedback contacts from K1 and K2 to 0V or bridge between terminal 14 and 0V
  - DIP switches DS3 down, DS2 up
- Achten Sie darauf, dass das Startsignal (+24V an Klemme 13) potentialfrei über einen Taster or Relais geschaltet werden muss.
- Make sure that the muting sensors are correctly wired for the desired muting mode, and that the DIP switches were set accordingly.
  - M2 and M3: Muting range 1 (S1 & S2)
  - M1 and M4: Muting range 2 (S3 & S4) or M1 – M4: Muting range 1 (S1 & S2)
  - The muting sensors should not be engaged when the MSI is switched on for the first time.
- Note that Category 2 light curtains (e.g. ROBUST) can only be muted at S1 and/or at S3. If you use Category 4 light curtains (e.g. COMPACT), these can only be muted at S1 and S2 and/or S3 & S4.
- Please be aware that the start signal (+24V to terminal 13) must be connected with zero voltage by way of a push-button switch or a relay.

If the Muting Fault Lamp Lights Up

- Verify that the muting is being correctly activated and deactivated.
  - sequential: comply with the sequence of the sensors.
  - parallel: simultaneous activation of the sensors within 2.5 seconds.
- Check whether the sensors are properly wired (testable, non-testable) and in compliance with the requirements.
- Check the time limit setting. Muting is limited to 10 minutes.

Information on the LED Indicators

- The other LEDs indicate the operating state of the MSI. Please read the descriptions located in Section 3.4. in the operating instructions.

## Using the Diagnostics Software

- Install the software on your PC/laptop.
  - Required operating system: Windows 3.1 or higher.
- Start the MSI or apply supply voltage.
- Start up the software.
- Connect the PC with the MSI using the diagnostics cable.
- Click on Start in the Data Transmission menu.
- The MSI software automatically recognizes which type of MSI is being operated.