

MSI-mi, MSI-mix

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, S3 & S4, switches 1 + 2 on the MSI lit up green?
If the above LEDs are lit up green, the optoelectronic protective devices (AOPDs) 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 and the corresponding DIP switch setting. e.g.
 - 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
 - DIP switches DS3 down, DS2 up

If the above LEDs are green and the system is not enabled

- Check if the interface is awaiting an interruption after the start button has been pressed and released.
- If the LED "locked" on the MSI blinks 1x -> wait for 1 cycle (interrupt 1x)
- Check the wiring:
 - Terminal 21 with 0V -> guard operation
 - Terminal 21 with terminal 15 -> single break
 - Terminal 21 with +24V -> double break
 - Terminal 20 with normally closed contact to +24V (machine cycle) -> control input, cycle clearance (Clear)
- Check whether the time monitoring is activated.
- Please note that Category 2 light curtains (e.g. ECO) in cyclical operation can only be operated at S1.
- Also note that Category 2 light curtains (e.g. ROBUST) can only be muted at S1. If you use Category 4 light curtains (e.g. COMPACT), these can only be muted at S1 & S2.
- 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 0.5 seconds.
- Check whether the sensors are properly wired (testable, non-testable) and in compliance with the requirements.

- Make sure that the DIP switches are set properly.
- 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.