

# MSI-mxE/Rx.2



## Additional information to the safety interface MSI-mxE/Rx.2 for type 2 sensors

The modular safety interface components of the MSI family serve as links between one or more optoelectronic protective devices and the machine control. The individual versions offer various safety-related additional functions, such as start/restart interlock, contactor monitoring (EDM), test monitoring of type 2 sensors, single cycle/two cycle control, or muting. MSI-mxE/Rx.2 contains relay outputs.

The E versions are designed for use in operating temperatures up to 55° Celsius.

The differences in the technical specifications of the MSI-mxE/Rx.2 safety interfaces from the Connecting and Operating Instructions for the standard MSI-mx version are described in this data sheet.

## Features of the MSI-mxE/Rx.2 special version

- Safety interface of type 2, with muting function in acc. to IEC-, EN 61496-1, EN ISO 13849-1:2015
- 2-8 type 2 AOPDs can be connected
- Designed for operating temperatures up to 55° C

## Order guide

Type	Part no.
MSI-mxE/Rx.2	549984
MSI diagnostic set MSI-SWC	549932

© 2021

Leuze electronic GmbH & Co. KG  
In der Braike 1  
D-73277 Owen / Germany  
Phone: +49 7021 573-0  
Fax: +49 7021 573-199  
<http://www.leuze.com>  
[info@leuze.com](mailto:info@leuze.com)

Leuze electronic GmbH & Co. KG



### Important notices!

Please note the following differences from the MSI-mx/Rx Connecting and Operating Instructions:

The following connection combinations are possible at inputs S1 to S4:

	Bridge
a) T1 → AOPD → S2 and T2 → AOPD → S1	S1/S3 + S2/S4
b) T1 → AOPD → S4 and T2 → AOPD → S3	S1/S3 + S2/S4
c) a) and b)	—
d) T1 → AOPD → S2 and T1 → AOPD → S4	—
T2 → AOPD → S1	S1/S3
e) T1 → AOPD → S2	S2/S4
T2 → AOPD → S1 and T2 → AOPD → S3	—

In the MSI-mxE/Rx.2 special version, the safety input channels are designed to take only AOPD type 2 sensors.

Inputs 25, 26, 34, 35 have no function and, thus, do not have to be connected. To commission the MSI-mxE/Rx.2 safety interface, you should be familiar with the Connecting and Operating Instructions for the MSI-mx, as well as with the datasheet containing additional information for the MSI-mxE/Rx.2 special version.

## Technical data for the MSI-mxE/Rx.2 special version

OSSD* response time of the MSI-mxE/Rx.2 (without AOPD)	64 ms
For AOPD type 2	
OSSD* restart delay time	> 300 ms
Ambient temperature, operation	0° ... +55°C
Certifications	TÜV SÜD

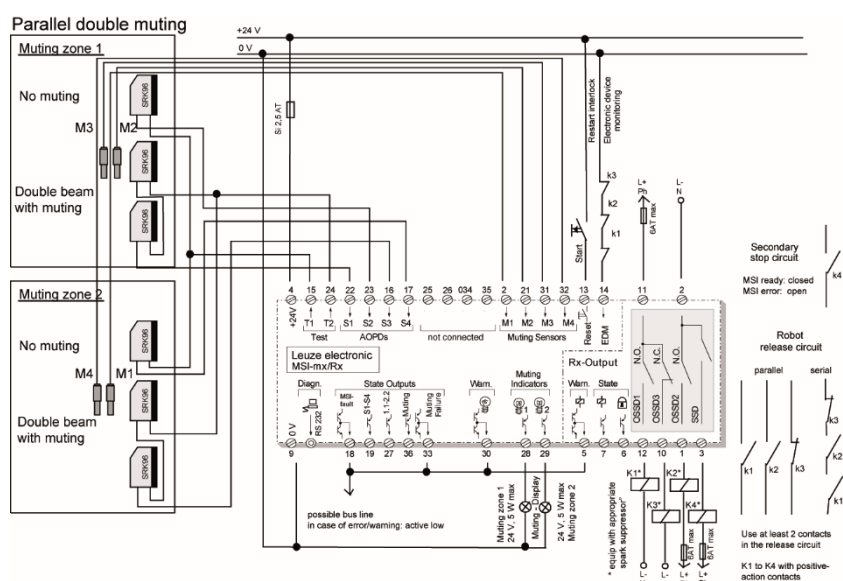
\*) OSSD: Safety-related switching output (Output Signal Switching Device)

For all other technical data see MSI-mx operating instructions, chapter 6!



This datasheet includes supplementing technical specifications which are different from the technical specifications for the MSI-mx standard version. Please consult the technical specifications for the standard versions, chapter 6, in the Connecting and Operating Instructions for the MSI-mx safety interfaces.

## Electrical connection



Connection example for MSI-mx/Rx.2 with AOPD SRK96 type 2 sensors



Take note of chapter 3 "DIP switch settings" in the MSI-mx operating instructions. Factory setting of the I/O-mx module: MU1, 3, 4, 5 on UP; MU2 on DOWN.

MSI-mxE/Rx.2

We reserve the right to make technical changes  
EN • 2021/12/07 • 603613