The **MK73-R111-Ex0** and **MK73-R222-Ex0** electrical relays are used to switch intrinsically safe electrical circuits. They provide reliable galvanic isolation to EN 50020 between control circuit and contacts.

The relay design is available in two versions:

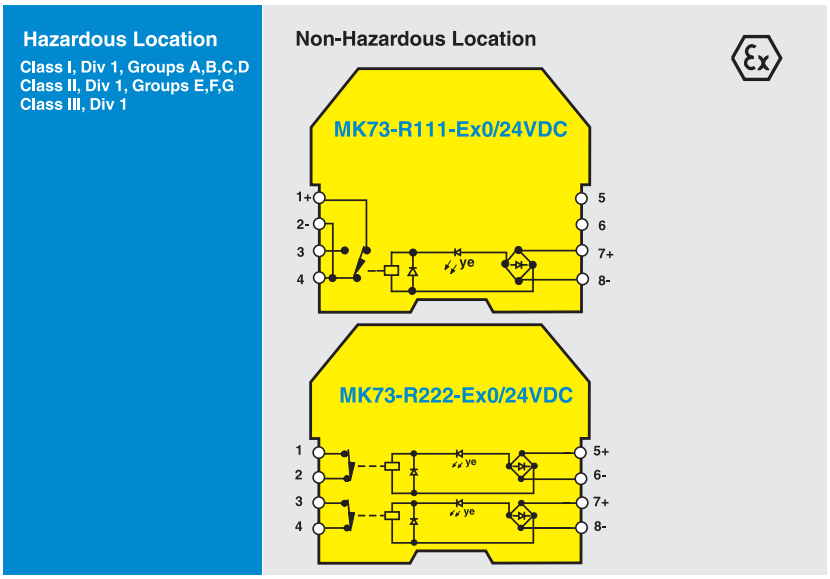
- R111: one channel with a SPDT output
- R222: two channels, each with one N.O. output

This reed relay has a considerably higher switching frequency (50 Hz) than standard relays. The Rhodium contacts are also well suited for general control applications, especially where standard relays are at their limits with regard to switching frequency and contact ratings.

An LED status indicator is located on the device front.

MK73-R111-Ex0/24VDC
MK73-R222-Ex0/24VDC

Connection Diagram



Relay Coupler
MK73-R111-Ex0/24VDC
MK73-R222-Ex0/24VDC

Type	**MK73-R111-Ex0/24VDC**	**MK73-R222-Ex0/24VDC**
ID Number	M7521001	M7521002
Clearance and Creepage Distances	Galvanic isolation per EN 50020, A2	Galvanic isolation per EN 50020, A2
- between control circuit / contacts	375 V peak value	375 V peak value
- between two contact circuits	- - - -	90 V peak value
Input Circuits		
Input voltage	10-30 VDC	10-30 VDC
Input current per channel	30 mA	30 mA
Output Circuits	One SPDT Reed relay to switch Intrinsically safe circuits EEx ia IIC	Reed relay with two N.O. contacts to switch intrinsically safe circuits EEx ia IIC
Contact material	Rhodium	Rhodium
Switching voltage	28 V	45 V
Switching current/continuous	240 mA	200 mA
Switching capacity	7 W	10 W
Switching frequency	50 Hz	50 Hz
Intrinsic Safety Parameters	See page K14	See page K14
LED Indications		
- Output energized	yellow	yellow
Housing Style	Diagram A (page A17)	Diagram A (page A17)