

COMPACT

MIRO SAFE+

MIRO SAFE+ SAFETY RELAYS FOR ALL APPLICATIONS

Making sure both man and machine are protected to the highest degree is important. That is why safety technology is a major topic in machine building and plant engineering. Murrelektronik's MIRO SAFE+ safety relays are the right solution to achieve safety standards up to performance level e (PLe) according to EN 13849-1.

With MIRO SAFE+ you can create many safety solutions:

- Emergency Stop Monitoring
- Guard Door Monitoring
- Light Barrier Monitoring
- Two-Hand Controls
- Pressure Sensitive Mats Monitoring
- Safety Magnet Switch Monitoring

MIRO SAFE+ safety relays are high performance relays. Here are some examples:

MIRO SAFE+ Switch H L 24 - The universal solution

This module is designed for emergency stop, guard door, light curtain and magnetic switch applications. It has three N/O and one N/C contact and can be used either with or without start-button monitoring.

MIRO SAFE+ Switch H 48-230 – The universal module with wide voltage input

They are suitable for emergency stop applications and guard-door monitoring with or without start-button monitoring. Can be used in applications with 48...230 V AC, for example in the US.

MIRO SAFE+ T 1 24 – The time manager

With a width of only 22.5 millimeters, this compact relay is the ideal solution for applications that require both instantaneous and delayed contacts. This relay allows you to individually adjust delays of up to 30 seconds.

MIRO SAFE+ Switch ECOA 24 – The cost-effective solution

This screw terminal relay can be used in guard doors, emergency stop and light curtain applications. It is an ideal solution for applications that do not require a monitored start button.



YOUR BENEFITS

- IP40 housing keeps small parts, like ferrule ends or wire pieces, from entering
- Clear identification with label plates
- LED status indicator on the front of the relay
- Flexible because it has a disconnectable cross-circuit fault detection
- Pluggable spring clamp terminals
- Coding elements help you identify the correct positions of the terminals
- Wide voltage input at 24 VDC (-15% /+20%)

Safety Relays

MIRO SAFE+ Switch ECOA 24

MIRO SAFE+ Switch BA L 24

MIRO SAFE+ Switch BCS L 24

MIRO SAFE+ Switch H L 24

MIRO SAFE+ Switch H 48-230

– IP40 housing



Ordering data	3000-33113-3020005	3000-33113-3020025	3000-33113-3020020	3000-33113-3020012	3000-33113-1020012
Art. No.	3000-33113-3020005	3000-33113-3020025	3000-33113-3020020	3000-33113-3020012	3000-33113-1020012
Applications					
Guard door monitoring	x	x	x	x	x
Emergency Stop monitoring	x	x	x	x	x
Light barrier monitoring	x	x	x	x	
Safety magnet switch monitoring	x	x	x	x	
Features					
Supply voltage 24 V AC/DC	x	x	x	x	
Supply voltage 48...240 V AC					x
Contacts (N/O)	2	3	3	3	3
Signal outputs potential-free (N/C)		1	1	1	1
Solid state signal outputs	1				
Automatic reset/start	x	x		x	x
Manual reset/start	x	x		x	x
Manually monitored reset/start			x	x	x
Cross-circuit fault detection (with some models disconnectable)		x	x	x	x
PL acc. to EN ISO 13849-1	up to PLe	up to PLe	up to PLe	up to PLe	up to PLe
Screw terminals	x	x	x		
Pluggable spring clamp terminals				x	x
Housing width	22.5 mm	22.5 mm	22.5 mm	22.5 mm	22.5 mm

Safety Relays

MIRO SAFE+ Hand 24

MIRO SAFE+ E 24

MIRO SAFE+ T 1 24

MIRO SAFE+ T 2 24

MIRO SAFE+ Step 24

– IP40 housing



Ordering data	3000-33113-3020030	3000-33113-3020075	3000-33113-3020065	3000-33113-3020060	3000-33113-3020050
Art. No.	3000-33113-3020030	3000-33113-3020075	3000-33113-3020065	3000-33113-3020060	3000-33113-3020050
Applications					
Guard door monitoring			x	x	x
Emergency Stop monitoring			x	x	
Light barrier monitoring			x	x	
Two-hand control monitoring	x				
Pressure sensitive mats Monitoring					x
Extension module		x			
Safety magnet switch monitoring			x	x	
Features					
Supply voltage 24 V AC/DC	24VDC	x	x	x	x
Contacts (N/O)	2	4	2	3	3
Signal outputs potential-free (N/C)	1	2		1	1
Solid state signal outputs			1	3	
Time-delayed contacts			1	2	
Automatic reset/start			x	x	x
Manual reset/start			x	x	x
Manually monitored reset/start			x	x	
Cross-circuit fault detection (with some models disconnectable)	x		x	x	x
PL acc. to EN ISO 13849-1	up to PLe	Extension module	up to PLe	up to PLe	up to PLe
Pluggable spring clamp terminals	x	x	x	x	x
Housing width	22.5 mm	22.5 mm	22.5 mm	45 mm	45 mm