NEW

EsMatix 3

Safety switching device for
protecting hazardous areas
on machinery and plant

Fast, safe, compact

■ **Short response time**

■ **EDM – external device monitoring**

■ **Program & diagnostic display**

EsMatix 3

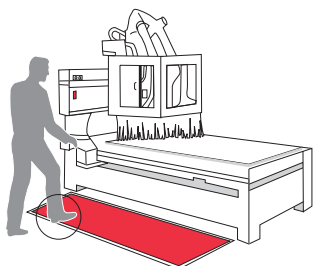## Application

Situation
Machine safety

Solution
- Protection of hazardous areas near machinery when using contact mats combined with an EsMatix 3 safety switching device

Tip
- Larger hazardous areas can be protected with several contact mats
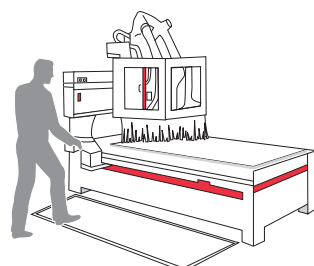
Situation
Milling or grinding machine with automatic protective door

Solution
- Reliable protection from moving machinery parts with safety edges and EsMatix 3 safety switching device

Benefit
- EsMatix 3 can monitor two tactile sensors at the same time (e.g. safety edge and contact mat)

Ordering information

Article no.	Description
364283	**EsMatix 3** Safety switching device
364284	**EsMatix 3.D** Safety switching device (inverted status output)

Supplementary products

ClickLine
Electric safety edge rubber profiles with click-fit foot

CoverLine
Electric safety edge rubber profiles for clicking in at the side

Contact mats
Electric pushbutton for activating and deactivating machines and devices

Technical data

Mechanical data

Material	Polyamide red-grey
Dimensions	22.5 × 92 × 85 mm (W × H × D)
Weight	150 g
Connection type	Plug terminals
Mounting	DIN rail

Electrical data

Supply voltage	24 VDC −20% to +20% 24 VAC −20% to +10%
Power consumption	Max. 3 VA
Inputs	For 1 or 2 sensors with 8.2 kOhm termination
Reset input	24 VACDC
Safety outputs	SSR, max. On resistance 2 Ohm, 24 VDC, max. 250 mA, internally protected with 300 mA fuse
Status output	24 VACDC, max. 250 mA
Response time (actuation)	< 5 ms
Recovery time	< 30 ms (reset after actuation)
Switch-on time	< 300 ms
External reset pulse (required)	> 100 ms
Displays	
Operation	Green
Safety shutdown	Orange
Fault (interruption)	Red

Programmable functions

Reset (confirmation)	Automatic (automatic start) Manual (pushbutton) Manual (external)
Fall-delay time	Between 0 and 1000 ms (5 levels)
Input delay	0, 15, 30 or 45 ms
Relay status EsMatix 3 EsMatix 3.D	Error signal output Signal inverted

Ambient conditions

Protection class of switching device	IP30
Operating temperature	−20°C to +60°C
Storage temperature	−40°C to +70°C
Air humidity	< 95% (non-condensing)

Standards

Approvals	EN ISO 13849-1 (PLe, cat.3)