

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

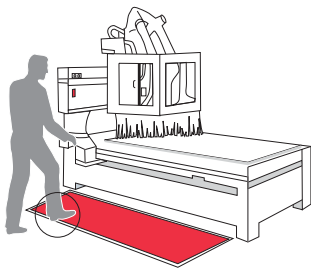
Machine safety

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

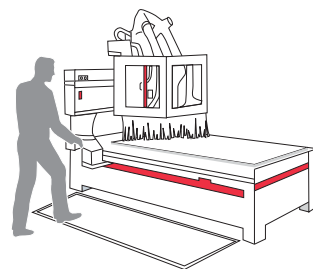
Milling or grinding machine with automatic protective door

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 Error signal output EsMatix 3.D 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)
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Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special properties of the products. This does not apply to special product properties confirmed by us in writing or individually. Subject to technical alterations.

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