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

www.bircher.com
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

Ordering information

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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

Material
Polyamide red-grey

Dimensions
22.5 x 92 x 85 mm (W x H x D)

Weight
150 g

Connection type
Plug terminals

Mounting
DIN rail

Supply voltage
24 V DC –20% to +20%
24 V AC –20% to +10%, 50/60 Hz

Power consumption
Max. 3 W

Inputs
For 1 or 2 sensors with 8.2 kΩ termination

Reset input
24 V AC/DC, max. 3 mA at 24 V
Uth > 8 V DC

Safety outputs
Solid state relays, 24 V DC, min. 0.5 mA, max. 250 mA, R<sub>DS(on)</sub> ca. 2 Ω, internally protected by a 300 mA fuse

Status output
Solid state relays, 24 V AC/DC, max. 250 mA, R<sub>DS(on)</sub> ca. 2 Ω

Response time (actuation)
< 5 ms

Recovery time
< 30 ms (reset after actuation)

Start-up time
< 300 ms

External reset pulse (required)
> 100 ms

Displays
- Operation
- Safety shutdown
- Fault (interruption)
- LCD

Green
Orange
Red
Additional information

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
Error signal output

Ambient conditions

Protection class of switching device
IP20

Operating temperature
−20°C to +60°C

Storage temperature
−40°C to +70°C

Air humidity
Max. 95% relative, non-condensing

Standards

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

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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