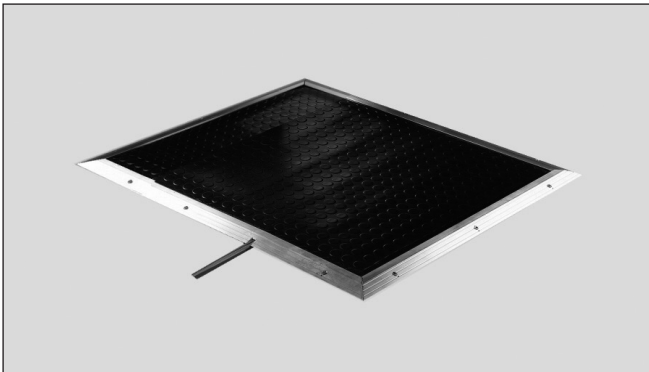


# Safety Mat System SM..



- Safety Category 3 in conjunction with MT1-D or NT1/2-D safety relay according to EN 954-1
- Expected mechanical life of over one million cycles
- Mat integrity monitoring
- Manual or automatic restart
- Customized dimensions
- Slip-free covering
- Easy screw mounting
- Approval:



## Product Description

The safety mat SM.. along with the respective safety module NT1/2-D or MT1-D, constitutes a heavy duty safety system of Safety Category 3, in conformity with European Machinery Directive, EN 954-1 and EN 1760-1 Standards. The safety mat operates like a

normal open switch, stopping the dangerous machinery any time it detects the presence of an operator within the controlled area. The same happens in case of failure of the mat or of the anomaly in the system.

## Ordering Key

**SM..**

- Safety Mat \_\_\_\_\_
- Number of single unit constituting the whole mat \_\_\_\_\_
- Dimensions \_\_\_\_\_
- Other specifications \_\_\_\_\_

## General Specifications

Material	PVC + thermoplastic rubber	Resolution	11 mm
Covering	Antislip	Dead zone (fixing trim excluded)	30 mm
Covering stiffness	≈ 70SH	Weight	≈ 9 Kg/m <sup>2</sup>

## Electrical Specifications

Internal resistance	Inside layer resistance: 1 to 5 Ω Layer to layer resistance: >10 M Ω (mat not operated) 1 to 5 Ω (mat operated)	Mat integrity monitoring	Yes (with MT1-D or NT1/2-D)
		Mat response time	<150ms (SM..+MT1-D) <150ms (SM..+NT1/2-D)

## Environmental Specifications

Operating temperature	0 to + 50°C	Storage temperature	-5 to + 55°C
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Safety Mat System  
SM..



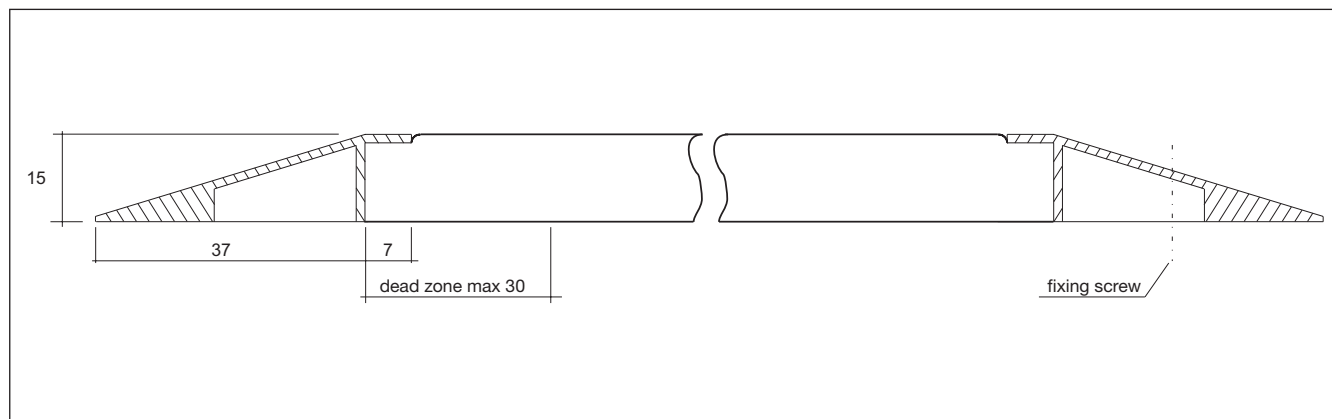
### Mechanical Specifications

Actuating force (N / Ø 80 mm)	< 300	Protection degree	IP 65 (IP 67 upon request)
Max actuating stroke	< 6 mm	Dimensions	Upon request
Permissible load not continuous and non caused by object fall	100 Kg/cm <sup>2</sup>	Fixing trim	Aluminum profile
Thickness	15 mm	Floor fixing	With screws
Mechanical life	> 3x10 <sup>6</sup> switching cycles	Output connection	PVC cable, L = 6 m connector ILME CKM04

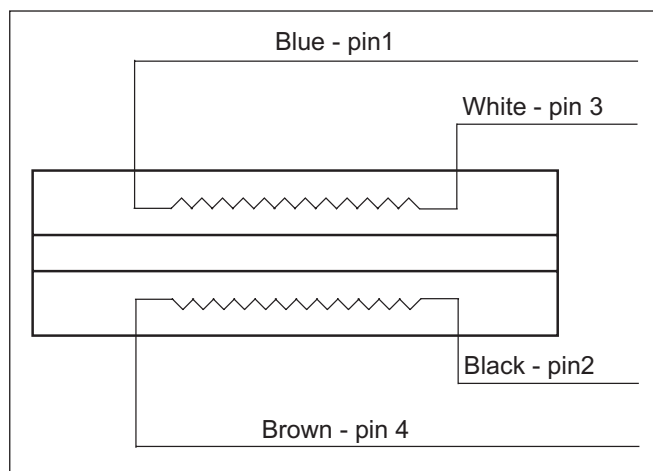
### Chemical Resistance Specifications

Oils	Good	Gasoline	Poor
Greases	Good	Detergents	Poor
Water	Excellent	Alcohol	Poor
Diluted Acids	Good	Abrasive Powder	Good
Solvents	Poor		

### Dimensions



### Wiring Diagrams



Specifications are subject to change without notice (10.01.04)