

## Control Units Product Range

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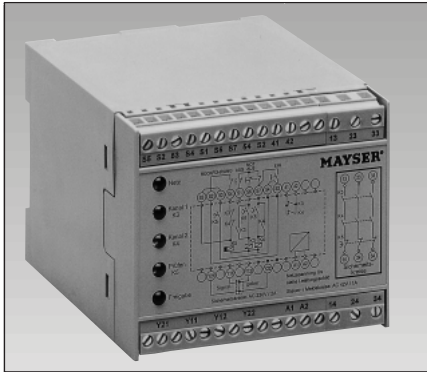
## Safety Control Units

Category 3 as per EN 954-1 for sensors  
Category 4 as per EN 954-1 for E-Stop switches  
(self monitoring)

## Control Units 4.1.1 Product Range

### Control Unit SG-SUE 41X4 NA

Switching functions for sensors relating to safety according to Category 3 as per EN 954-1 can be carried out with this control unit. In addition, there are built-in safety circuits according to Category 4 as per EN 954-1 for E-Stop switches.



**Safety Control Unit  
SG-SUE 41X4 NA**  
with additional E-Stop safety circuits  
(EEC-type-examination certificate)  
Redundant electronics with self-  
monitoring.  
EG 90 enclosure with snap-on base  
1 monitoring circuit (2 channels)  
3 safety circuits

Further E-Stop switches can be  
connected up.

Control Unit	Power
<b>SG-SUE 4104 NA</b>	24 V=
<b>SG-SUE 4114 NA</b>	115 V~
<b>SG-SUE 4134 NA</b>	230 V~

for Safety Mats, Safe Edges and  
Safety Bumpers, type BK (4-wire-  
connection system)

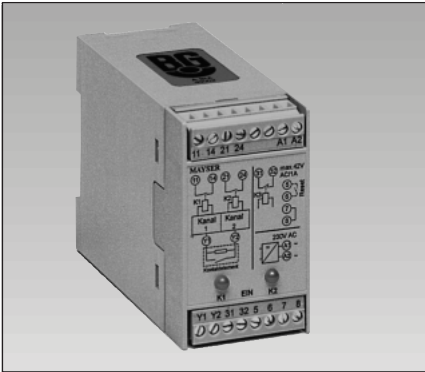
See operating instructions for technical details

**Safety Control Units**  
Category 3 as per EN 954-1

**Control Units 4.2.1**  
**Product Range**

**Control Units SG-EFS and SG-SLE**

Switching functions relating to safety according to Category 3 as per EN 954-1 can be carried out with these control units.



**Safety Control Unit SG-EFS 1X4 ZK2/1**  
with manual or automatic reset  
(EEC-type-examination certificate)  
with force guided contacts and  
internal contact monitoring  
EG 45 enclosure with snap-on base  
1 monitoring circuit (2 channels)  
1 load circuit  
(1 x NO per channel)  
1 NC as fault indication contact

Control Unit	Power
<b>SG-EFS 104 ZK2/1</b>	24 V= $\sim$
<b>SG-EFS 114 ZK2/1</b>	115 V $\sim$
<b>SG-EFS 134 ZK2/1</b>	230 V $\sim$

for Safety Mats, Safe Edges and  
Safety Bumpers with 1.2 k $\Omega$   
monitoring resistor



**Safety Control Unit SG-SLE 04-0X1**  
(EEC-type-examination certificate)  
with force guided contacts and  
internal contact monitoring  
wall enclosure with see-through lid  
or as a printed circuit board  
4 monitoring circuits (2 channels)  
1 load circuit (1 x change-over  
contact per channel, 1 x change-  
over feedback)

Control Unit	Power
<b>SG-SLE 04-051</b>	24 V=
<b>SG-SLE 04-041</b>	115 V $\sim$
<b>SG-SLE 04-021</b>	230 V $\sim$
<b>PCB:</b>	
<b>SG-SLE 14-051</b>	24 V=
<b>SG-SLE 14-041</b>	115 V $\sim$
<b>SG-SLE 14-021</b>	230 V $\sim$

for Safe Edges and Safety Bumpers  
with 22.1 k $\Omega$  resistor

See operating instructions for technical details

**Control Units**  
Category 2 as per EN 954-1

**Control Units** 4.3.1  
**Product Range**

**Control Unit SG-RED**

Normal switching functions according to Category 2 as per EN 954-1 can be carried out with these control units.



**Control Unit**  
**SG-RED 1X3**

Compact enclosure

- 1 monitoring circuit
- 1 load circuit (change-over contact)

Control Unit	Power
<b>SG-RED 103</b>	24 V=~/~
<b>SG-RED 133</b>	230 V~

for sensors with end diode

See operating instructions for technical details

**Control Units**  
Category 1 as per EN 954-1

**Control Units** 4.4.1  
**Product Range**

**Control Unit SG-RS**

Normal switching functions according to Category 1 as per EN 954-1 can be carried out with these control units.



**Control Unit  
SG-RS 1X1**

Compact enclosure

- 1 monitoring circuit
- 1 load circuit (change-over contact)

Control Unit	Power
<b>SG-RS 101</b>	24 V=/~
<b>SG-RS 131</b>	230 V~

for sensors with 1.2 kΩ monitoring resistor



**Control Unit  
SG-RS 204**

EG 22.5 enclosure with snap-on base

- 2 monitoring circuits
- 1 load circuit

Control Unit	Power
<b>SG-RS 204</b>	24 V=/~
<b>SG-RS 204-1</b>	12 V=

for sensors with 1.2 kΩ monitoring resistor

See operating instructions for technical details