SWITCHGEAR (EVALUATORS)

Switchgear overview

Switchgear in housing types A, B, C and D



Switchgear – full monitoring

The switching devices monitor the switching strip connected in regard to actuation and interruption. They provide a potential-isolated safety relay contact for "Stop".

Switching strips with a length of up to 100 m can be connected to the switchgear. Monitoring is performed on the closed circuit current principle with an 8.2 k Ω resistor as the electrical termination. The switchgears possess three LEDs (green, yellow, red), which are used to indicate different states:

- Green: switching strip connected, system ready for operation, safety contacts closed
- Yellow: error message "Open sensor circuit", safety contacts opened
- **Red:** switching strip actuated, safety contacts opened

If, in the case of fail-safe (redundant) devices (Safety Category 3), the channels indicate a differing status; this signals a system malfunction and the safety contacts will be opened.

When the switching strip is actuated, the relay will drop out and the safety contacts will be opened.





/ Housing type A

The housing for installing the switchgear in a control cabinet is used for evaluators of Safety Categories 1 and 3. It is chosen when there is sufficient space in the control cabinet. The housing's overall dimensions are $45 \times 75 \times 120$ mm (W x H x D).

Housing type B

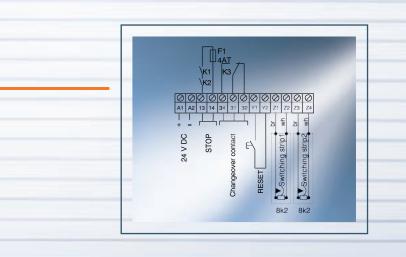
The housing for surface installation is used for evaluators of Safety Categories 1 and 3.

Housing type C

The housing for control cabinet installation is used for evaluators of Safety Category 3. Since the housing has a width of only 22.5 mm, it is chosen when there is not sufficient space in the control cabinet. The housing's overall dimensions are $22.5 \times 100 \times 110$ mm (W x H x D).

Housing type D

The housing for control cabinet installation is used for evaluators of Safety Category 1. Thanks to its small width of 22.5 mm, this housing is also chosen in control cabinets with a restricted amount of space available. The housing's overall dimensions are 22.5 x 75 x 111 mm ($W \times H \times D$).







SWITCHGEAR (EVALUATORS)

/ Switchgear overview



Housing type C	230 V AC STOP S	Supply ** 2 situp	Changeover contact RTCP RESET A Stop Reset A Stop Reset A Stop R StopR Stop R StopR StopR StopR Stop R StopR StopR StopR	Changeover contact RTOP RESET AREA AREA AREA AREA AREA AREA AREA AR
Туре	452.40	452.42	452.46	452.49
Article no.	3004.5240	3004.5242	3004.5246	3004.5249
Safety category to EN 954-1	3	3	3	3
Functions				
Input:				
1 switching strip	Х	Х	Х	х
2 switching strips				
Output:				
1 output with 2 relays each with 1 NC contact	Х	Х	Х	Х
in series, forced				
2 outputs with 2 relays each with 1 NC contact				
in series, forced				
1 output with 2 relays, NC contact available separately, forced				
1 output with 1 relay contact (NC)				
2 outputs each with 1 relay contact (NC)				
Additional functions:				
Changeover contact	Х	Х	Х	Х
Changeover contact approx. 0.5 s time delayed				
Reset	Х	Х	Х	Х
Slip-door contact				
Supply voltage A1 – A2	230 V AC	24-230 V AC/24-110 V DC	24 V DC	24 – 60 V AC/DC
Rated power	3 VA	4 VA/6 VA	3 VA	4 VA/6 VA
Power pack potential-isolated	Х	Х	Х	Х
Relay contacts 13 – 14; 21 – 24				
Max. switching voltage AC/DC	250 V/24 V	250 V/24 V	250 V/24 V	250 V/24 V
Max. switching current AC/DC	4 A/2 A	4 A/2 A	4 A/2 A	4 A/2 A
Perm. operating temperature	−20+55 °C	−20+55 °C	−20+55 °C	−20+55 °C
Housing:	22 5 100 110	22 5 100 110	22 5 100 110	22.5 100 110
Dimensions ($W \times H \times D$) in mm	22.5 x 100 x 110	22.5 x 100 x 110	22.5 x 100 x 110	22.5 x 100 x 110
Degree of protection for housing/contacts	IP 20	IP 20	IP 20	IP 20
Weight Tests:	250 g	190 g	175 g	190 g
EN 954-1	Х	Х	Х	Х
EN 954-1 EN 50121-3-2	Λ	λ	Λ	X
EN 50121-3-2 EN 50155				X
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230 V AC - P C - P	Changeown contact Stripp Str	24 V DC + 2 S STOP + 2 S STOP + 2 S STOP + 2 S Cumpoore contact + 2 S + 2 S -
462.40	462.42	462.46
3004.6240	3004.6242	3004.6246
3	3	3
X	X	Х
X	Х	Х
Х	Х	Х
X	Х	Х
Λ	~	^
230 V AC	24-230 V AC/24-110 V DC	24 V DC
3 VA	4 VA/6 VA	3 VA
Х	Х	Х
250 V/24 V	250 V/24 V	250 V/24 V
4 A/2 A -20+55 °C	4 A/2 A −20+55 °C	4 A/2 A -20+55 °C
-20+33 C	-20+33 C	-20+JJ C
22.5 x 100 x 110	22.5 x 100 x 110	22.5 x 100 x 110
IP 20	IP 20	IP 20
250 g	190 g	175 g
X	Х	Х



