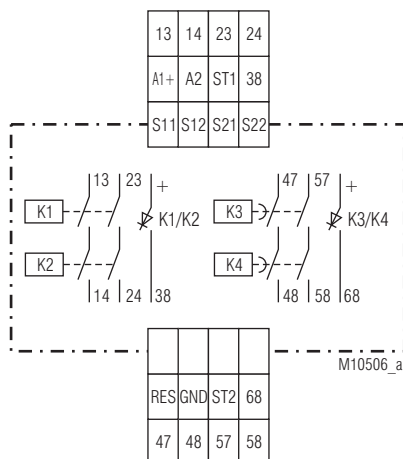




Product Description

The multifunction safety timer UG 6960 provides protection of men and machines by enabling and disabling a safety circuit. This is done by the adjusted time delay function. Simply select 1 out of 5 delay functions with a rotary switch – ready. The adjusted time is safe over the complete setting range. The UG 6960 is available for different safety functions. It has safe delayed and instantaneous contacts.

Circuit Diagram



Connection Terminals

Terminal designation	Signal description
A1 +	DC 24 V
A2	0 V
13, 14, 23, 24	Forcibly guided NO contacts for release circuit
47, 48, 57, 58	Forcibly guided NO contacts for delayed contacts
38, 68	Semiconductor monitoring output
GND	Reference potential for Semiconductor monitoring output
S11, S21	Control output
S12, S22, ST1, ST2, RES	Control input

Your Advantage

- **Various delay functions adjustable at device:**
 - Release delay
 - Release delay retriggerable
 - On delay
 - Fleeting on make / break
 - Delay function settable via potentiometer
- **Various safety functions defined:**
 - E-Stop
 - Safety gate
 - Two-hand control
 - Safety mat / Safety edge
 - Exclusive or contacts
 - Light curtain
- Manual or auto start
- Instantaneous contact and safety delayed contacts
- Protection against manipulation by sealable transparent cover

Features

- **According to**
 - **Performance Level (PL) e and category 4 to EN ISO 13849-1**
 - **SIL Claimed Level (SIL CL) 3 to IEC/EN 62061**
 - **Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511**
- Acc. to EN 50156-1 for furnaces
- Line fault detection on On-button:
- Manual restart or automatic restart
- With or without cross fault monitoring
- 2-channel
- Forcibly guided output contacts
- Output: 2 NO instantaneous contact and 2 NO contacts delayed
- 1 semiconductor output for instantaneous contacts
- 1 semiconductor output for delayed contacts
- LED indicator for operation, safety function, time delay and failure
- As option with pluggable terminal blocks for easy exchange of devices
 - with screw terminals
 - or with cage clamp terminals
- Width: 22.5 mm

Approvals and Markings

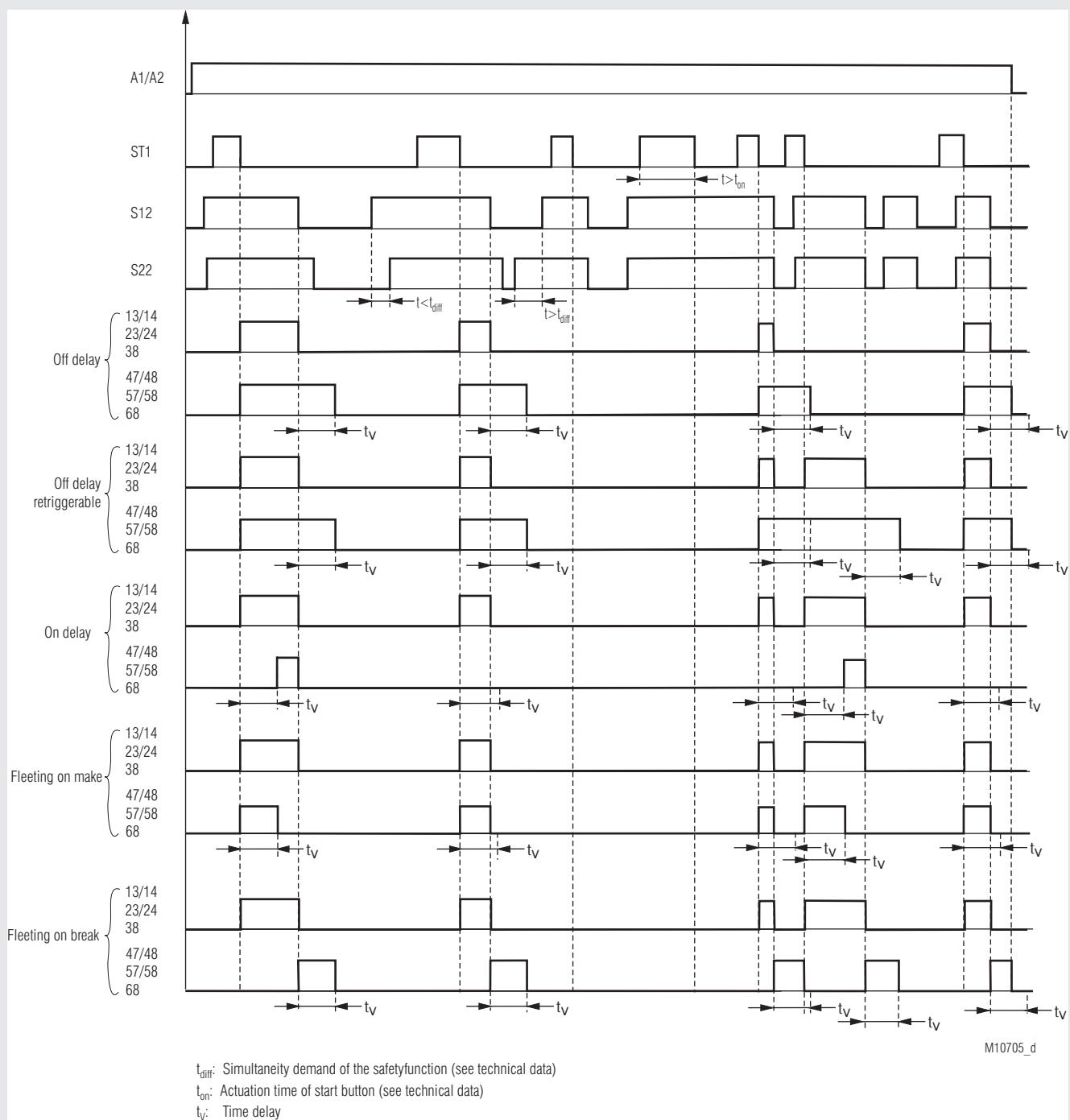


Application

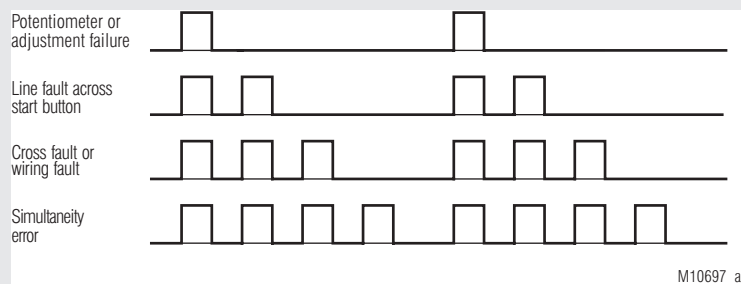
Protect people and machines in applications with e-stop buttons, safety gates, light curtains with selftesting (Type 4) acc. to IEC/EN 61 496-1, 2-hand controls for presses as well as other production machinery with dangerous closing action (Type III C to EN ISO 13851) and for safety mats, safety edges and tape switches with a max. switching current of 15 mA.

Indicators

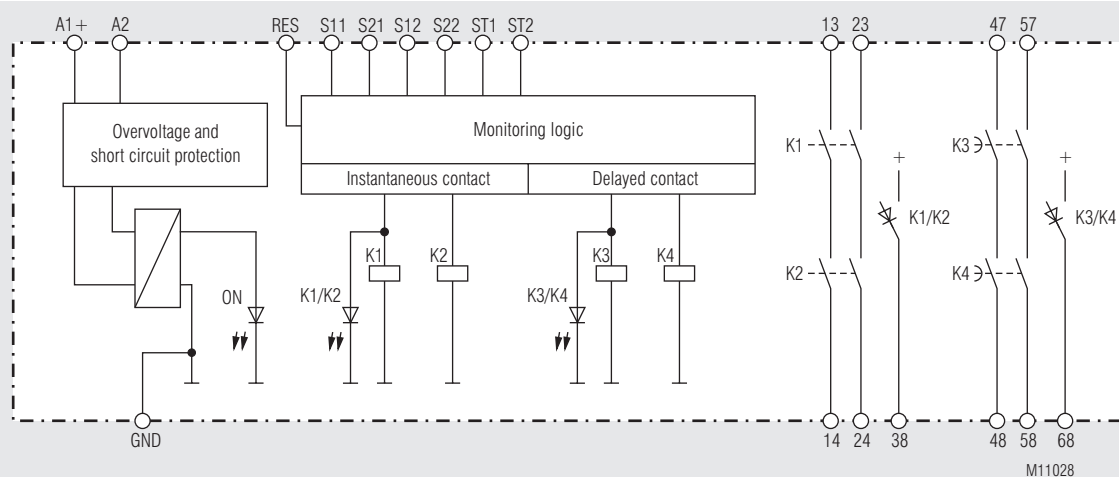
Green LED ON:	On, when supply connected
Red LED ERR:	On, at internal error flashes at external error
Green LED K1/K2:	On, when relay K1 and K2 energized (instantaneous contact) Flashes at external errors (see flashing codes)
Green LED K3/K4:	On, when relay K3 and K4 energized (delayed contacts) Flashes during time delay



Fault Indication by Flashing Code on K1/K2



Block Diagrams



Practical Notes

Operating mode

Manual or auto start is chosen by wiring. On manual start S21 has to be connected to ST1! via an NO push button. For auto start S21 is connected to ST2. If both inputs are connected to S21 the unit goes into safe failure mode. A restart or new start of the device has to be made.

Only an automatic start at safety function two-hand control /3__ is possible.

Line fault detection e.g. monitoring of ON-button

If the On-button pressed more than 3 s the adequate output contacts of the safety function can't be switch. The output contacts can be energized when the On-button pressed again ($0.1 \text{ s} < t_{\text{ON}} < 3 \text{ s}$).

A line fault is detected if the On-button more than 10 s is actuated. The output contacts of the adequate safety function can only be energized with a reset or re-start with on an off switching of power supply.

Reset and external failures:

The reset input is used to reset external failures (application failures or removable external failures as e.g. a line fault on reset button). If the reset signal is connected to the input for more than 3 sec the unit makes a reset. A new reset is only possible when the reset signal had been switched off temporarily.

If an external failure occurs because both input channels of a safety function did not switch on or off within the simultaneous time, a reset is only possible if both channels are switched to off state after removing failure cause.

Setting delay mode

On the variant /_0_ the delay mode can be set via rotary switch t_{Fkt} . Possible functions:

t_{Fkt}	Function
1	Release delay
2	Release delay retriggerable
3	On delay
4	Fleeting on make
5	Fleeting on break

Description of the time delay functions

Off delay

If the sensors/switches of the safety function are switched off or an external failure in the safety function is detected, the adjusted time delay is started. After elapse of the delay time the delayed contacts switch off. Restarting of the output contacts is only possible after the time is fully elapsed.

Off delay retriggerable

If the sensors/switches of the safety function are switched off or an external failure in the safety function is detected, the adjusted time delay is started. After elapse of the delay time the delayed contacts switch off. On before the time is elapsed, or the the external failure is removed and reset and the starting conditions are fulfilled (manual or auto start) the delayed contacts remain switched on.

On delay

If the sensors/switches of the safety function are switched on the adjusted time delay is started. After elapse of the delay time the delayed contacts switch on. If the sensors/switches of the safety function are switched off before the time is elapsed, the time is stopped and the delayed safety contacts remain switched off. When the sensors/switches of the safety function are switched on again then the time delay is started from the beginning.

Practical Notes

Fleeting on make

If the sensors/switches of the safety function are switched on, the delayed contacts are switched on and the adjusted time delay is started. After elapse of the delay time the delayed contacts switch off.

If the sensors/switches of the safety function are switched off before the time is elapsed the delayed safety contacts are also switched off.

Fleeting on break

If the sensors/switches of the safety function are switched off or an external failure in the safety function is detected, the delayed safety contacts are switched on and the adjusted time delay is started.

After elapse of the delay time the delayed contacts switch off. If the sensors/switches of the safety function are switched off before the time is elapsed the delayed safety contacts are also switched off again.

Adjusting the time delay

With rotary switch t_{max} the time range for the delayed contacts is selected. With rotary switch t the time is adjusted within the selected range in 10 % steps.

Example: required time = 0.8 s

1. Example:

$$t_{\text{max}} = 1 \text{ s} ; t = 0.8 \geq t_v = t_{\text{max}} \times t = 1 \text{ s} \times 0.8 = 0.8 \text{ s}$$

2. Example:

$$t_{\text{max}} = 2 \text{ s} ; t = 0.4 \geq t_v = t_{\text{max}} \times t = 2 \text{ s} \times 0.4 = 0.8 \text{ s}$$

Repeat accuracy

The repeat accuracy of the delayed contact depends on different factors:

Repeat accuracy $t_w = \text{system reaction time}^1 \pm 1 \% \text{ of } t_v$

¹⁾ Pick up or drop off time depending on delay mode

Operating Potentiometer

Poti " t_{Fkt} "	Adjustment of delay function
Poti " t_{max} "	Adjustment of time range
Poti " t "	Fine adjustment at time range

Technical Data	
Input	
Nominal voltage U_N:	DC 24 V
Voltage range:	0.8 ... 1.1 U_N
Nominal consumption:	Typ. 3.2 W
Short-circuit protection:	Internal PTC
Overvoltage protection:	Internal VDR
Duty-cycle ON button:	0.1 s < t_{EIN} < 3 s
Duty-cycle Reset button:	> 3 s
Safety function	
Safety mat / safety edge (4)	
max. permitted	
safety edge contact resistance: 1000 Ω	
switching current at short circuit: typ. 15 mA at U_N	
Light curtains (8)	
control current via S12, S22: typ. 8 mA at U_N	
Min. voltage on terminals	
S12, S22 when relay activated: DC 10 V	
Output	
Contacts	
2 NO instantaneous contacts	
2 NO delayed contacts	
The NO contacts can be used for safe braking.	
Delay t_v	
ranges at / _ _ 0:	
8 time ranges in one unit (seconds or minutes) settable via rotational switch	
0.1 ... 1 1.0 ... 10	
0.2 ... 2 3.0 ... 30	
0.3 ... 3 10 ... 100	
0.5 ... 5 30 ... 300	
other times on request	
fixed at / _ _ 1:	
seconds or minutes	
1, 2, 3, 5, 10, 30, 100, 300	
other times on request	
Time setting in:	
10% steps of	
max. time range value	
Repeat accuracy:	
see formula	
Thermal current I_{th}:	
max. 8 A	
(see quadratic total current limit curve)	
Safety function	
E-Stop (1) (6), Safety gate (2) (7),	
Exclusive or contacts (5)	
Start up at U_N :	
< 65 ms	
Release delay at U_N and disconnecting the supply:	
< 40 ms	
Release delay at U_N and disconnecting S12,S22:	
< 60 ms	
Simultaneity demand:	
< 3 s	
Two-hand control (3)	
Start up at U_N :	
< 110 ms	
Release delay at U_N and disconnecting the supply:	
< 40 ms	
Release delay at U_N and disconnecting S12,S22:	
< 60 ms	
Simultaneity demand:	
< 0,5 s	
Safety mat (4)	
Start up at U_N :	
< 85 ms	
Release delay at U_N and disconnecting the supply:	
< 40 ms	
Release delay at U_N and disconnecting S12,S22:	
< 60 ms	
Light curtains (8)	
Start up at U_N :	
< 35 ms	
Release delay at U_N and disconnecting the supply:	
< 40 ms	
Release delay at U_N and disconnecting S12,S22:	
< 25 ms	
Simultaneity demand:	
< 1 s	

Technical Data	
Switching capacity	
to AC 15:	3 A / AC 230 V IEC/EN 60947-5-1
to DC 13	
Instantaneous contacts:	2 A / DC 24 V IEC/EN 60947-5-1
Delayed contact:	3 A / DC 24 V IEC/EN 60947-5-1
to DC 13	
Instantaneous contacts:	4 A / DC 24 V at 0.1 Hz
Electrical life	
at 5 A, AC 230 V $\cos \varphi = 1$:	> 1.5 x 10 ⁵ switching cycles
Permissible operating frequency	
instantaneous contact:	Max. 1800 switching cycles / h
delayed contact:	Max. 360 switching cycles / h
Short circuit strength	
max. fuse rating:	6 A gG / gL IEC/EN 60947-5-1
Mechanical life:	
10 x 10 ⁶ switching cycles	
Semiconductor monitoring output (not safety):	
1 for instantaneous contact	
1 for delayed contact	
max. 50 mA DC 24 V, plus switching	
(see quadratic total current limit curve)	

General Data	
Nominal operating mode:	
Continuous operation	
Temperature range	
Operation:	
- 25 ... + 60 °C	
(see quadratic total current limit curve)	
At an altitude of > 2000 m the maximum permissible temperature reduces by	
0.5°C / 100 m	
Storage:	
- 40 ... + 85 °C	
Altitude,	
Clearance and creepage distance	
rated impulse voltage /	
pollution degree:	
IEC 60664-1	
≤ 2000 m > 2000 m up to ≤ 4000 m	
4 kV / 2 2,5 kV / 2	
EMC	
Interference suppression:	
IEC/EN 61326-3-1, IEC/EN 62061	
Degree of protection	
Limit value class B EN 55011	
Housing:	
IP 40 IEC/EN 60529	
Terminals:	
IP 20 IEC/EN 60529	
Housing:	
Thermoplastic with VO behaviour according to UL subj. 94	
Vibration resistance:	
Amplitude 0,35 mm	
Frequency 10 ... 55 Hz, IEC/EN 60068-2-6	
25 / 060 / 04 IEC/EN 60068-1	
Climate resistance:	
Terminal designation:	
EN 50 005	
Wire fixing:	
Captive slotted screw or cage clamp terminals	
Mounting:	
DIN rail IEC/EN 60715	
Weight:	
Approx. 250 g	
Dimensions	
Width x height x depth:	
UG 6960 PS:	
22.5 x 110 x 120.3 mm	
UG 6960 PC, PT:	
22.5 x 120 x 120.3 mm	

UL-Data

The safety functions were not evaluated by UL. Listing is accomplished according to requirements of Standard UL 508, "general use applications"

Ambient temperature: -15 ... +55°C

Altitude: ≤ 2000 m

Switching capacity:

Ambient temperature 55°C Pilot duty B300, R300
5A 250Vac Resistive or G.P.
5A 24Vdc Resistive

Ambient temperature 40°C: Pilot duty B300, R300
8A 250Vac Resistive or G.P.
8A 24Vdc G.P.

Wire connection:: 60°C / 75°C copper conductors only
PS-terminal: AWG 28 - 12 Sol/Str Torque 0.5 Nm
PC-terminal: AWG 24 - 12 Sol/Str
PT-terminal: AWG 24 - 16 Sol/str



Technical data that is not stated in the UL-Data, can be found in the technical data section.

Standard Type

UG 6960.04PS/100/61 DC24V 300 s

Article number: 0065424

- Safety function: e-stop
- Delay function: adjustable
- Time delay: adjustable
- Output: 2 NO contacts instantaneous contacts
2 NO contacts delayed contacts
- Nominal voltage: DC 24 V
- Width: 22.5 mm

Variants

UG 6960 .04 / /61 DC 24 V 300 s

Max. time range or fixed time

Nominal voltage

UL-approval

Time delay
0 = Adjustable
1 = Fixed

Delay function
0 = Adjustable

Safety function
1 = E-stop,
with cross fault detection
2 = Safety gate,
with cross fault detection
3 = Two-hand control,
with cross fault detection
4 = Safety mat / Safety edge,
with cross fault detection
5 = Exclusive or contacts,
with cross fault detection
6 = E-stop,
without cross fault detection
7 = Safety gate,
without cross fault detection
8 = Light curtain,
without cross fault detection

Type of terminals
PC (plug in cage clamp):
pluggable terminal blocks,
with cage clamp terminals
PS (plug in screw):
pluggable terminal blocks,
with screw terminals
PT (plug in Twin cage clamp):
pluggable terminal blocks,
with cage clamp terminals 2-wire

Contacts

Type

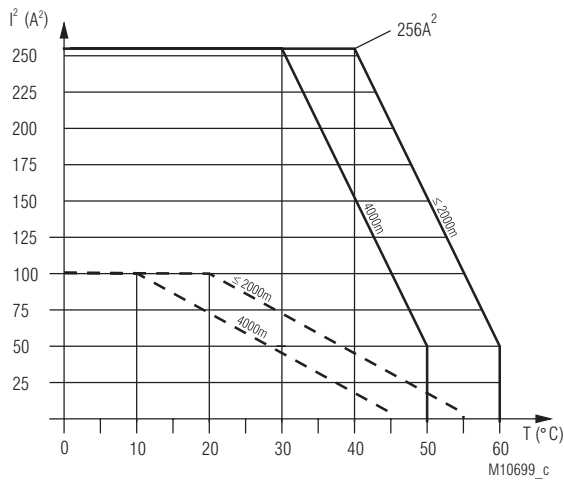
Troubleshooting

Failure	Potential cause
LED "ON" does not light up	- Power supply A1+/A2 not connected
LED "ERR" flashes in relation 1:1	- Under- or overvoltage (check power supply A1+/A2)
LED "ERR" flashes in relation 4:1	- external failure (see flashing code)
LED "ERR" continuously on	- system error (if cannot be removed after restart unit must be replaced)

Maintenance and Repairs

- The device contains no parts that require maintenance.
- In case of failure, do not open the device but send it to manufacturer for repair.

Characteristics



— Device free-standing.
Max. current at 60°C (≤ 2000m) or 50 °C (4000m) over
4 contact path = $3,5A \cong 4 \times 3,5^2 A^2 = 100A^2$

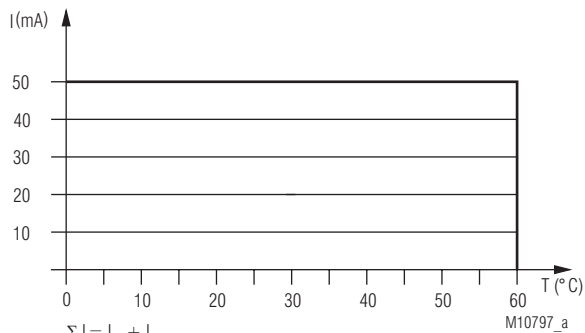
- - - Device mounted without distance heated by
devices with same load.
Max. current at 55°C (≤ 2000m) or 45 °C (4000m) over
4 contact path = $1A \cong 4 \times 1^2 A^2 = 4A^2$

$$\Sigma I^2 = I_1^2 + I_2^2 + I_3^2 + I_4^2$$

I_1, I_2, I_3, I_4 - Current in contact paths

Quadratic total current limit curve output contacts.

From an altitude of > 2,000 m the curve is adjusted by - 0,5 °C / 100 m
(see example for 4,000 m).



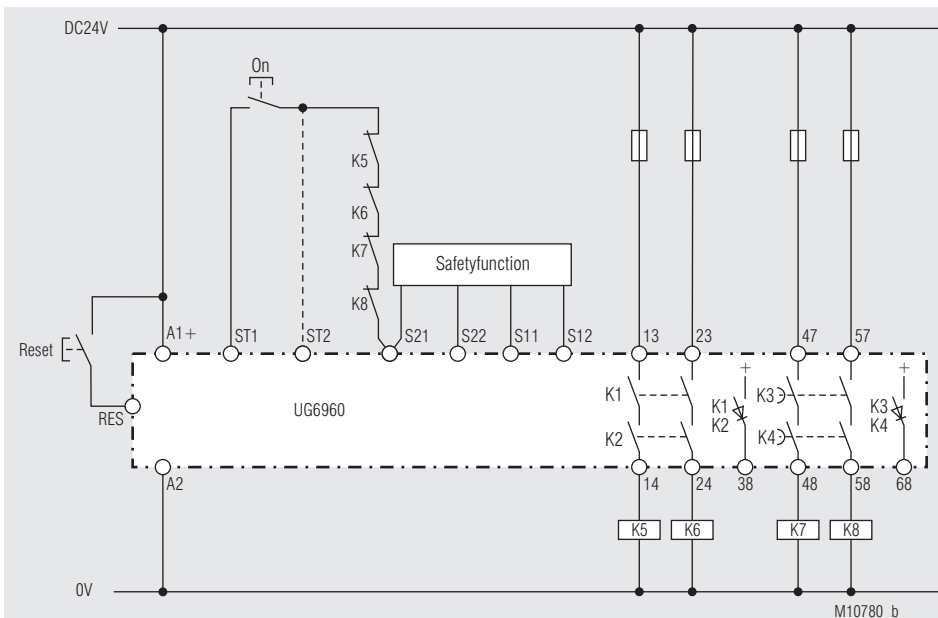
$$\Sigma I = I_{38} + I_{68}$$

z.B.: $\Sigma I = 35mA + 15mA = 50mA$

I_{38} - Current semiconductor output 38

I_{68} - Current semiconductor output 68

Quadratic total current limit curve semiconductor monitoring outputs.

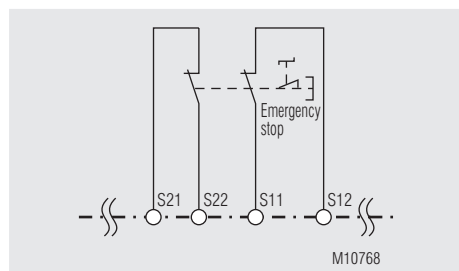


Safetyfunction: see below, Manual-Start (for automatic start make a bridge to ST2 instead of ON button).

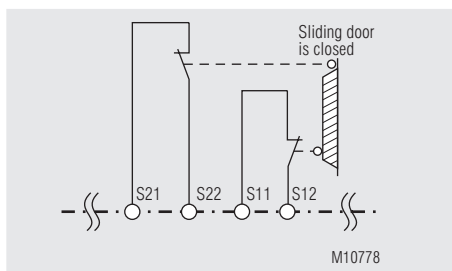
Delay function: release delay (1)

K1/K2 instantaneous contact, K3/K4 delayed contact

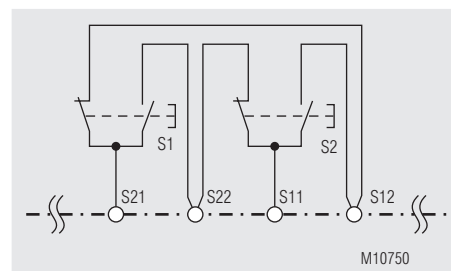
Contact reinforcement by external contactors. The correct function of the external contactors is monitored by connecting the NC contacts into the start circuit (manual start: terminals S21-ST1, auto start: S21-ST2).



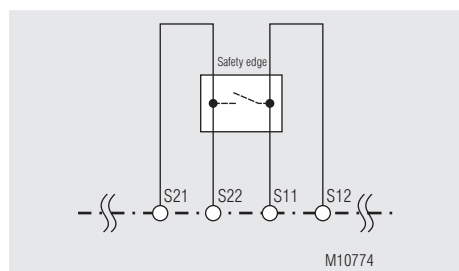
Fct.: E-stop (1),
with cross fault detection
SIL 3, PL e, Cat. 4



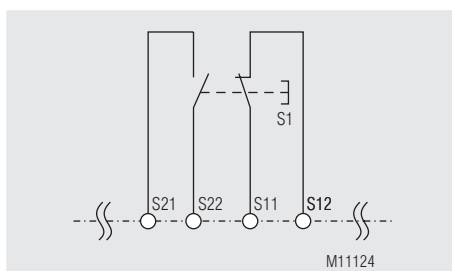
Fct.: Safety gate (2),
with cross fault detection
SIL 3, PL e, Cat. 4



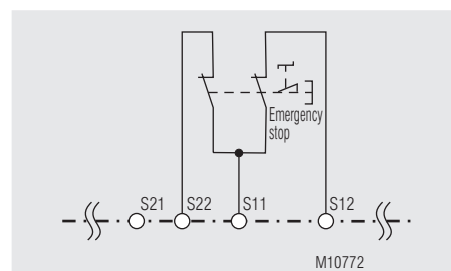
Fct.: Two-hand control (3),
with cross fault detection
SIL 3, PL e, Cat. 4
Type III C to EN ISO 13851



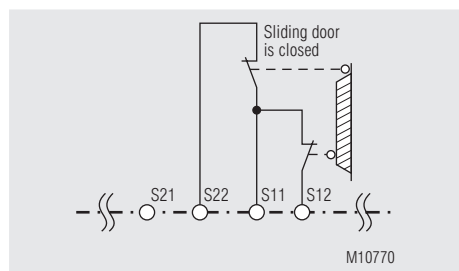
Fct.: Safety mat / Safety edge (4),
with cross fault detection
SIL 3, PL e, Cat. 4



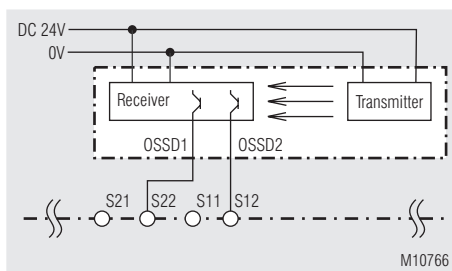
Fct.: Exclusive or contacts (5),
with cross fault detection
SIL 3, PL e, Cat. 4



Fct.: E-Stop (6),
without cross fault detection
SIL 3, PL e, Cat. 4 ¹⁾



Fct.: Safety gate (7),
without cross fault detection
SIL 3, PL e, Cat. 4 ¹⁾

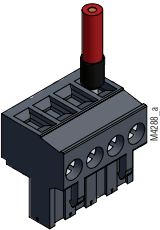
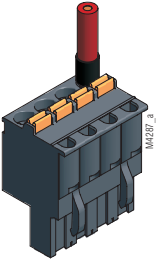
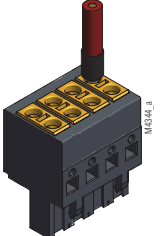
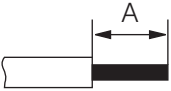
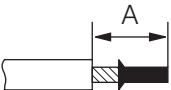
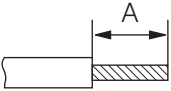


Fct.: Light curtain (8),
without cross fault detection
SIL 3, PL e, Cat. 4 ²⁾

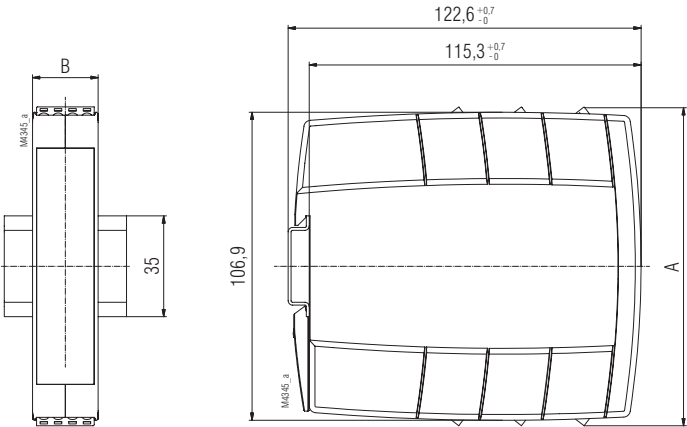
¹⁾ To achieve the stated safety classification the wiring has to be done with crossfault monitoring.

²⁾ To achieve the stated safety classification light curtains with selftest (type 4) according to IEC/EN 61496-1 have to be used.

DE	Anschlussstechnik
EN	Connection Technology
FR	Technologie de connexion

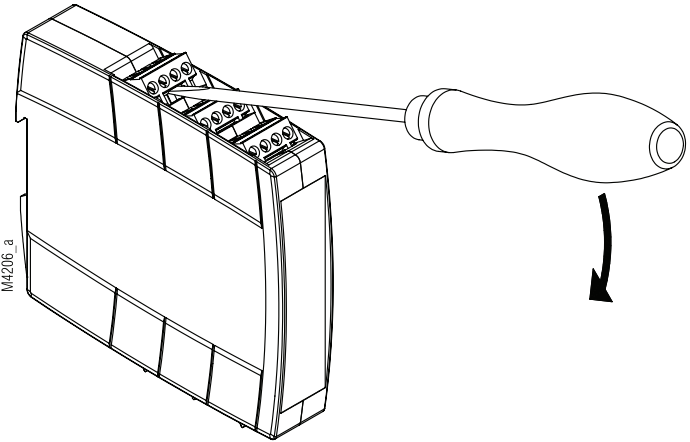
	Schraubklemmen, abnehmbar Screw terminals, pluggable Bornes à vis, amovibles	Federkraftklemmen, abnehmbar Cage clamp terminals, pluggable Bornes ressorts, amovibles	Federkraftklemmen 2-Leiter, abnehmbar Cage clamp terminals 2-wire, pluggable Bornes ressorts 2 conducteurs, amovibles
	 PS	 PC	 PT
	DIN 5264-A; 0,6 x 3,5 0,5 Nm 5 LB. IN	DIN 5264-A; 0,6 x 3,5	DIN 5264-A; 0,4 x 2,5
 M10248	A = 7 mm 1 x 0,2 ... 2,5 mm ² 1 x AWG 24 to 12 2 x 0,2 ... 1,0 mm ² 2 x AWG 24 to 18	A = 10 mm 1 x 0,2 ... 2,5 mm ² 1 x AWG 24 to 12	A = 8 mm 1 x 0,2 ... 1,5 mm ² 1 x AWG 24 to 16
 M10249	A = 7 mm 1 x 0,25 ... 2,5 mm ² 1 x AWG 24 to 12 2 x 0,25 ... 1,0 mm ² 2 x AWG 24 to 18	A = 10 mm 1 x 0,25 ... 2,5 mm ² 1 x AWG 24 to 12 2 x 0,25 ... 1,5 mm ² mit TWIN-Aderendhülse	A = 8 mm 1 x 0,25 ... 1,5 mm ² 1 x AWG 24 to 16
 M10250	A = 7 mm 1 x 0,2 ... 2,5 mm ² 1 x AWG 24 to 12 2 x 0,2 ... 1,5 mm ² 2 x AWG 24 to 16	A = 10 mm 1 x 0,2 ... 2,5 mm ² 1 x AWG 24 to 12	A = 8 mm 1 x 0,2 ... 1,5 mm ² 1 x AWG 24 to 16

DE	Maßbild (Maße in mm)
EN	Dimensions (dimensions in mm)
FR	Dimensions (dimensions en mm)



	A	B
UG 6960 PS	110 ±1	22,5
UG 6960 PC	120 ±1	
UG 6960 PT		

DE	Montage / Demontage der PS / PC / PT-Klemmenblöcke
EN	Mounting / disassembly of the PS / PC / PT-terminal blocks
FR	Montage / Démontage des borniers PS / PC / PT



DE	Sicherheitstechnische Kenndaten
EN	Safety related data
FR	Données techniques sécuritaires

EN ISO 13849-1:		
Kategorie / Category:	4	
PL:	e	
MTTF _d :	133,3	a (year)
DC _{avg} :	99,0	%
d _{op} :	365	d/a (days/year)
h _{op} :	24	h/d (hours/day)
t _{cycle} :	3600	s/cycle
	± 1	/h (hour)

IEC/EN 62061 IEC/EN 61508 IEC/EN 61511:		
SIL CL:	3	IEC/EN 62061
SIL:	3	IEC/EN 61508 / IEC/EN 61511
HFT ¹⁾ :	1	
DC:	99,0	%
PFH _D :	3,94E-10	h ⁻¹
PFD _{avg} :	3,3E-05	(Low Demand Mode)
T ₁	20	a (year)
¹⁾ HFT = Hardware-Fehlertoleranz Hardware failure tolerance Tolérance défauts Hardware		

Anforderung seitens der Sicherheitsfunktion an das Gerät		Intervall für zyklische Überprüfung der Sicherheitsfunktion
Demand to our device based on the evaluated necessary safety level of the application.		Intervall for cyclic test of the safety function
Consigne résultant de la fonction sécuritaire de l'appareil		Interval du contrôle cyclique de la fonction sécuritaire
nach, acc. to, selon EN ISO 13849-1	PL e with Cat. 3 or Cat. 4	einmal pro Monat once per month mensuel
	PL d with Cat. 3	einmal pro Jahr once per year annuel
nach, acc. to, selon IEC/EN 62061, IEC/EN 61508	SIL CL 3, SIL 3 with HFT = 1	einmal pro Monat once per month mensuel
	SIL CL 2, SIL 2 with HFT = 1	einmal pro Jahr once per year annuel
nach, acc. to, selon EN 61511, EN 50156-1	SIL 3	einmal pro Jahr once per year annuel



DE	Die angeführten Kenndaten gelten für die Standardtype. Sicherheitstechnische Kenndaten für andere Geräteausführungen erhalten Sie auf Anfrage. Die sicherheitstechnischen Kenndaten der kompletten Anlage müssen vom Anwender bestimmt werden.
EN	The values stated above are valid for the standard type. Safety data for other variants are available on request. The safety relevant data of the complete system has to be determined by the manufacturer of the system.
FR	Les valeurs données sont valables pour les produits standards. Les valeurs techniques sécuritaires pour d'autres produits spéciaux sont disponibles sur simple demande. Les données techniques sécuritaires de l'installation complète doivent être définies par l'utilisateur.

DE	EG-Konformitätserklärung
EN	CE-Declaration of Conformity
FR	Déclaration de conformité européenne

EG - Konformitätserklärung

Declaration of Conformity

Déclaration de conformité européenne



Hersteller: E. Dold & Söhne GmbH & Co. KG
Manufacturer: / Fabricant:
Anschrift: Bregstraße 18
Address: / Adresse: 78120 Furtwangen
Germany

Produktbezeichnung: Multifunktionales Sicherheitszeitrelais **UG6960.kktt/xyzccc** mit: kk = 04
Product description: Multifunction safety timer with: tt = PS, PC, PT
Désignation du produit: Module de sécurité multifonctions avec: x = 1 - 8
temporisé y = 0 - 5
z = 0, 1
optional ccc = /60 ... / 69

Das bezeichnete Produkt stimmt mit den Vorschriften folgender europäischer Richtlinien überein:
The indicated product is in conformance with the regulations of the following european directives:
Le produit désigné est conforme aux instructions des directives européennes:

Maschinenrichtlinie: 2006/42/EG EU-Abl. L157/24, 09.06.2006
Machinery directive: / Directives Machines:
EMV - Richtlinie: 2014/30/EU EU-Abl. L96/79, 29.03.2014
EMC - Directive: / Directives- CEM::
RoHS - Richtlinie 2011/65/EU EU-Abl. L174/88, 01.07.2011
RoHS -Directive: / Directives - RoHS:

Prüfgrundsätze: EN ISO 13849-1:2015 EN ISO 13851:2019
Basis of Testing: EN 62061:2005 + AC:2010 + A1:2013 + A2:2015 EN 50178:1997
Lignes de contrôle: EN 61508 Parts 1-7:2010
EN 61000-6-1:2007 EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011 EN 61000-6-4:2007 + A1:2011

Die Übereinstimmung eines Baumusters des bezeichneten Produktes mit der oben genannten Maschinenrichtlinie wurde bescheinigt durch:

Consistency of a production sample with the marked product in accordance to the above machiney directive has been certified by:
La conformité d'un échantillon du produit désigné aux directives machines susmentionnées a été certifiée par:

Benannte Stelle: TÜV Rheinland Industrie Service GmbH
Certification office: / l'organisme notifié: Am Grauen Stein, 51105 Köln
Nummer der benannten Stelle: 0035
Number of certification office: / Numéro de l'organisme notifié:
Nummer der Bescheinigung: 01/205/5305.03/22
Certification number: / Numéro de certificat:
Ausstelldatum : 29.07.2022
Date of issue: / Date de délivrance:

Für die Zusammenstellung der technischen Unterlagen ist bevollmächtigt:
For the compilation of technical documents is authorized:
Pour la composition des documents techniques est autorisé:

Gamal Hagar, Entwicklungsleiter / R&D Manager

Rechtsverbindliche Unterschrift:

Signature of authorized person:
Signature autorisée :

Christian Dold, Produktmanagement / Productmanagement

Ort, Datum : Furtwangen, 25.08.2022
Place, Date: / Lieu, date:

Diese Original - Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der Produktdokumentation sind zu beachten.

This original declaration confirms the conformity of the mentioned directives but does not comprise any guarantee of the product characteristics. The safety directives of the product documentation are to be considered.

Cette déclaration originale certifie la conformité des directives nommées mais ne comprend aucune garantie des caractéristiques du produit. Les directives de sécurité de la documentation du produit sont à considérer.

DE	UK-Konformitätserklärung
EN	UK-Declaration of Conformity
FR	Déclaration de conformité UK

UK Declaration of Conformity



Manufacturer: E. Dold & Söhne GmbH & Co. KG

Address: Bregstraße 18
78120 Furtwangen
Germany

Product description: Multifunction safety timer **UG6960.kktt/xyzccc** mit: kk = 04
tt = PS, PC, PT
x = 1 - 8
y = 0 - 5
z = 0, 1
optional ccc = /60 .. /69

The indicated product is in conformance with the regulations of the following British regulations:

Supply of Machinery (Safety) Regulations: S.I. 2008 No. 1597

Electromagnetic Compatibility Regulations: S.I. 2016 No. 1091

RoHS Regulations: S.I. 2012 No. 3032

Designated standards: EN ISO 13849-1:2015 EN ISO 13851:2019
EN 62061:2005 + AC:2010 + A1:2013 + A2:2015 EN 50178:1997
EN 61508 Parts 1-7:2010
EN 61000-6-1:2007 EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011 EN 61000-6-4:2007 + A1:2011

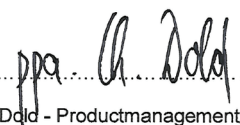
Consistency of a production sample with the marked product in accordance to the above machiney directive has been certified by:

Certification office: TÜV Rheinland UK Ltd., Friars Gate(Third Floor),
1011 Stratford Road, Shirley, Solihull B90 4BN, United Kingdom
2571
Number of certification office:
Certification number: 01/205U/5305.00/22
Date of issue: 2022-07-29

For the compilation of technical documents is authorized: **Signature of authorized person:**

Dold Industries Ltd

11 Hamberts Rd. Blackall Ind. Estate
South Woodham Ferrers
GB - Essex, CM3 5UW


.....
Christian Dold - Productmanagement

Place, Date : Furtwangen, 2022-08-25

This original declaration confirms the conformity of the mentioned directives but does not comprise any guarantee of the product characteristics. The safety directives of the product documentation are to be considered.

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