



**SAFEMASTER**  
**Emergency Stop Module**  
**with time delay**  
**BH 5928, BI 5928**

**Translation**  
**of the original instructions**

0262976



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Before installing, operating or maintaining this device, these instructions must be carefully read and understood.



Keep instructions for future reference



The installation must only be done by a qualified electrician!



Do not dispose of household garbage!  
The device must be disposed of in compliance with nationally applicable rules and requirements.

To help you understand and find specific text passages and notes in the operating instructions, we have important information and information marked with symbols.

### Symbol and Notes Statement



**DANGER:**  
Indicates that death or severe personal injury will result if proper precautions are not taken.



**WARNING:**  
Indicates that death or severe personal injury can result if proper precautions are not taken.



**CAUTION:**  
Indicates that a minor personal injury can result if proper precautions are not taken.



**INFO:**  
Referred information to help you make best use of the product.



**ATTENTION:**  
Warns against actions that can cause damage or malfunction of the device, the device environment or the hardware / software result.

### General Notes

The product hereby described was developed to perform safety functions as a part of a whole installation or machine. A complete safety system normally includes sensors, evaluation units, signals and logical modules for safe disconnections. The manufacturer of the installation or machine is responsible for ensuring proper functioning of the whole system. DOLD cannot guarantee all the specifications of an installation or machine that was not designed by DOLD. The total concept of the control system into which the device is integrated must be validated by the user. DOLD also takes over no liability for recommendations which are given or implied in the following description. The following description implies no modification of the general DOLD terms of delivery, warranty or liability claims.

### Designated Use

The BH 5928 bzw. BI 5928 is used to interrupt a safety circuit in a safe way. It can be used to protect people and machines in applications with e-stop buttons and safety gates. When used in accordance with its intended purpose and following these operating instructions, this device presents no known residual risks. Nonobservance may lead to personal injuries and damages to property.

### Safety Notes



**Risk of electrocution!**  
**Danger to life or risk of serious injuries.**

- Disconnect the system and device from the power supply and ensure they remain disconnected during electrical installation.
- The device may only be used for the applications described in the mutually applicable operating instructions / data sheet. The notes in the respective documentation must be heeded. The permissible ambient conditions must be observed.
- The contact protection of the elements connected and the insulation of the supply cables must be designed in accordance with the requirements in the operating instructions / data sheet.
- Note the VDE and local regulations, particularly those related to protective measures.



**Risk of fire or other thermal hazards!**  
**Danger to life, risk of serious injuries or property damage.**

- The device may only be used for the applications described in the mutually applicable operating instructions / data sheet. The notes in the respective documentation must be heeded. The permissible ambient conditions must be observed. In particular, the current limit curve must be heeded.
- The device may only be installed and put into operation by experts who are familiar with this technical documentation and the applicable health and safety and accident prevention regulations.



**Functional error!**  
**Danger to life, risk of serious injuries or property damage.**

- The device may only be used for the applications described in the mutually applicable operating instructions / data sheet. The notes in the respective documentation must be heeded. The permissible ambient conditions must be observed.
- The device may only be installed and put into operation by experts who are familiar with this technical documentation and the applicable health and safety and accident prevention regulations.
- The unit should be panel mounted in an enclosure rated at IP 54 or superior. Dust and dampness may lead to malfunction.



**Installation fault!**  
**Danger to life, risk of serious injuries or property damage.**

- Make sure of sufficient protection circuitry at all output contacts for capacitive and inductive loads.



**Attention!**

- The safety function must be triggered during commissioning.
- The line fault detection is only active when the time delayed relays K1<sub>1</sub> and K2<sub>1</sub> have released and then S12 (channel A) and S32 (channel B) are switched simultaneously.
- If a line fault occurs after the voltage has been connected to S12, S22, the unit will be activated because this line fault is similar to the normal On-function.
- Switch S1 must not be set while device is under supply voltage.
- AUTOMATIC START !  
According to IEC/EN 60204-1 part 9.2.5.4.2 and 10.8.3 it is not allowed to restart automatically after emergency stop.  
Therefore the machine control has to disable the automatic start after emergency stop.
- Opening the device or implementing unauthorized changes voids any warranty

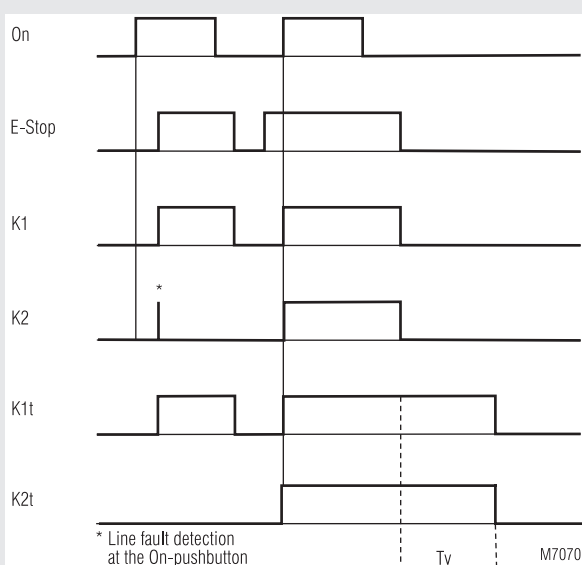


## SAFEMASTER Emergency Stop Module With Time Delay BH 5928, BI 5928



- 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
- Output: 3 NO or 2 NO, 1 NC instantaneous contacts and 3 NO release delayed contacts
- Single and 2-channel operation
- Line fault detection on On-button, when On-button is connected to S33-S34
- Manual restart with button on S33-S34 or automatic restart with bridge between S13-S14
- With or without cross fault monitoring in the E-stop loop
- LED indication for supply, channel 1/2 and release delayed contacts
- Removable terminal strips
- Wire connection: also 2 x 1.5 mm<sup>2</sup> stranded ferruled (isolated), DIN 46 228-1/-2/-3/-4 or 2 x 2.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3
- Width
  - BH 5928: 45 mm
  - BI 5928: 67.5 mm

### Function Diagram



### Approvals and Markings



\* See variants

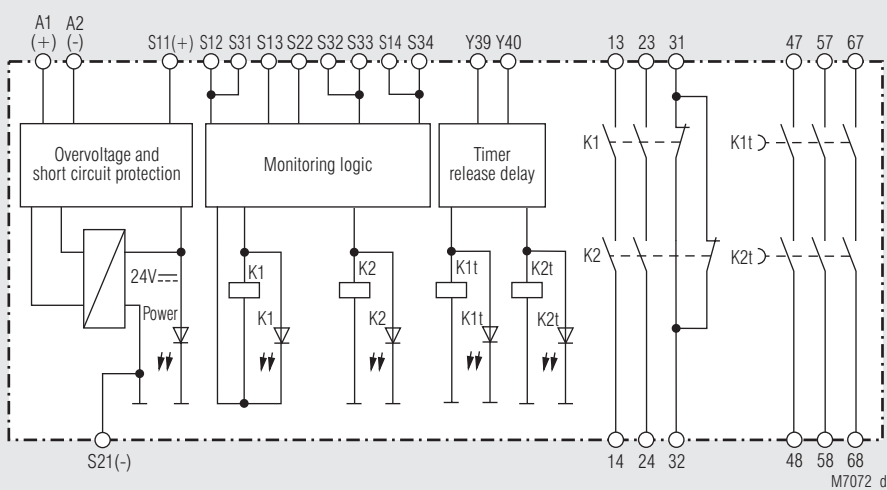
### Applications

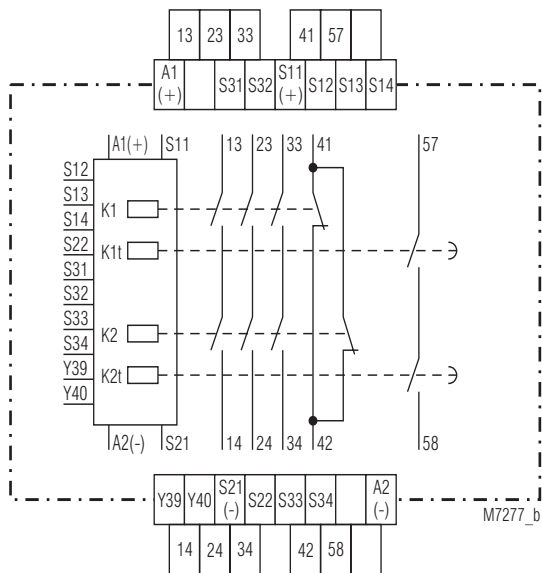
- Protection of people and machines
- Emergency stop circuits on machines, stop category 1 can be realised
- Monitoring of safety gates

### Indicators

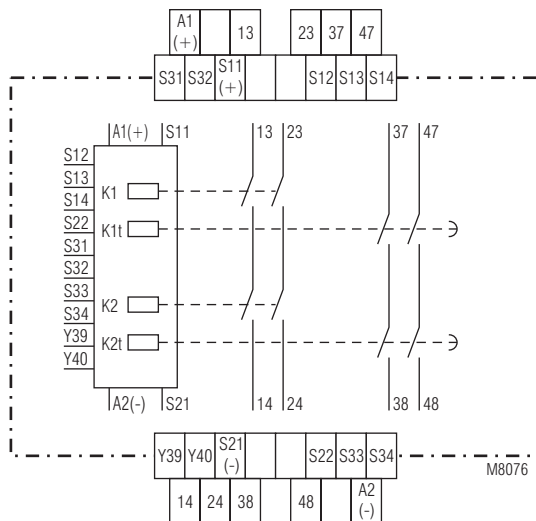
LED Power: On, when supply connected  
LEDs K1, K2: On, when relay K1 and K2 resp. K1<sub>t</sub> and K2<sub>t</sub> energized

### Block Diagram

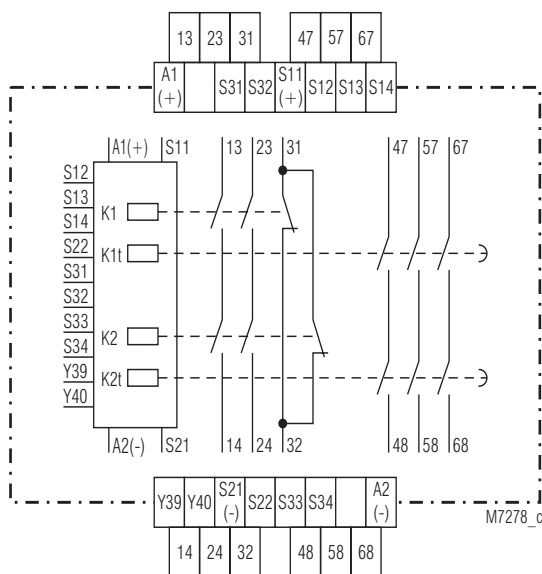




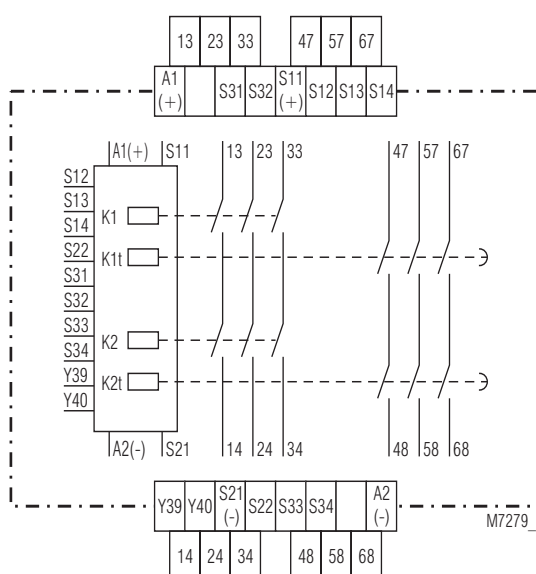
BH 5928.47



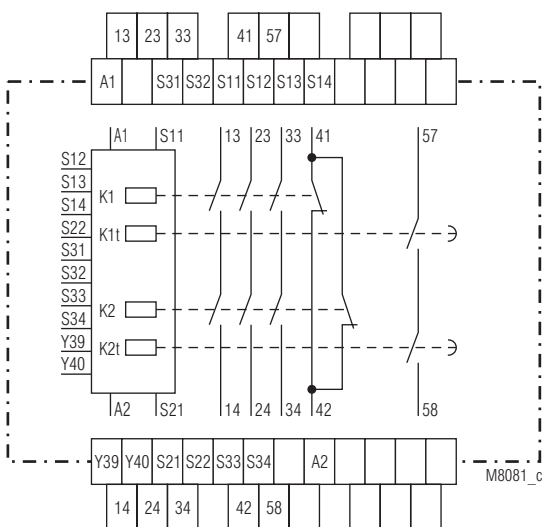
BH 5928.91



BH 5928.92



BH 5928.93



BI 5928.47/100

Connection Terminals	
Terminal designation	Signal description
A1(+)	+ / L
A2 (-)	- / N
S12, S14, S22, S31, S32, S34, Y39	Inputs
S11, S13, S21, S33, Y40	Outputs
13, 14, 23, 24, 33, 34	Positive driven NO contacts for release circuit
37, 38, 47, 48, 57, 58, 67, 68	NO contacts, delay
31, 32, 41, 42	Positive guided indicator output

### Notes

To select automatic restart terminals S13 - S14 must be bridged, S33 - S34 must be opened. Open terminals S13 - S14 select manual restart, the On-button must then be connected to S33 - S34.

Line fault detection on On-button:

The line fault detection is only active when the time delayed relays K1, and K2, have released and then S12 (channel A) and S32 (channel B) are switched simultaneously. If the On-button is closed before S12, S31, S32 is connected to voltage (also when line fault across On-button), the output contacts will not close. The unit will not restart before the time delay is finished.

A line fault across the On-button which occurred after activation of the relay, will be detected with the next activation and the output contacts will not close. If a line fault occurs after the voltage has been connected to S12, S31, S32, the unit will be activated because this line fault is similar to the normal On-function.

The unit can be operated with single channel and 2-channel operation with cross fault monitoring. For connection please refer to application examples.

The gold plated contacts of the BH 5928 mean that this module is also suitable for switching small loads of 1 mVA - 7 VA, 1 mW - 7 W in the range 0.1 - 60 V, 1 - 300 mA. The contacts also permit the maximum switching current. However since the gold plating will be burnt off at this current level, the device is no longer suitable for switching small loads after this.

The terminal S21 permits the operation of the device in IT-systems with insulation monitoring, serves as a reference point for testing the control voltage and is used to connect the E-stop loop when cross fault monitoring is selected.

Connecting the terminal S21 to the protective ground bridges the internal short-circuit protection of Line A2(-). The short-circuit protection of line A1(+) remains active.

Y39 - Y40 must be closed to have timed outputs. By opening the bridge between Y39 and Y40 the time delay can be interrupted immediately. Without bridge the contacts switch without delay.

The time setting has to be sealed by the user after test.

Technical Data	
<b>Input</b>	
<b>Nominal voltage <math>U_N</math>:</b>	BH 5928: DC 24 V, AC/DC 24 V BH 5928.92/900, BI 5928.47/100: DC 24 V
<b>Voltage range</b>	DC AC/DC At 10% residual ripple: 0.9 ... 1.1 $U_N$ 0.95 ... 1.1 $U_N$ At 48% residual ripple: 0.8 ... 1.1 $U_N$ 0.8 ... 1.1 $U_N$
<b>Nominal consumption:</b>	AC approx. 6.0 VA DC approx. 3.5 W
<b>Nominal frequency:</b>	50 / 60 Hz
<b>Min. Off-time:</b>	1 s
<b>Control voltage on S11:</b>	DC 23 V at $U_N$
<b>Control current over S12, S32:</b>	40 mA at $U_N$ each
<b>Min. voltage on S12, S32:</b>	DC 21 V when relay activated
<b>Short-circuit protection:</b>	Internal PTC
<b>Overvoltage protection:</b>	Internal VDR
<b>Output</b>	

<b>Contacts</b>	BH 5928.47, BI 5928.47/100: 3 NO, 1 NC contacts instantaneous and 1 NO contact release delayed
BH 5928.91:	2 NO contacts instantaneous, and 2 NO contacts release delayed
BH 5928.92	2 NO, 1 NC contacts instantaneous and 3 NO contacts release delayed
BH 5928.93:	3 NO contacts instantaneous and 3 NO contacts release delayed

The NC contacts 31-32 or 41-42 can only be used for monitoring.

<b>Operate delay typ. at <math>U_N</math>:</b>	Manual start: 40 ms Automatic start: 500 ms
<b>Release delay typ. at <math>U_N</math>:</b>	Disconnecting the supply: 40 ms 2-channel disconnecting S12, S22, S31 and S32: 15 ms
<b>Fault detection time typ. at <math>U_N</math>:</b>	at 1-channel interruption at S12, S22, and S31: 15 ms at S32: 520 ms
<b>Time delay <math>t_v</math> (release delayed):</b>	Auxiliary supply must be connected for time delay

Time ranges:	0.1 ... 1 s 3.0 ... 30 s 0.3 ... 3 s 6.0 ... 60 s 0.5 ... 5 s 30 ... 300 s 1.0 ... 10 s
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Other ranges or values on request  
Fixed values: 1 s, 3 s, 5 s, 10 s, 300 s  
± 1 % of setting value

<b>Repeat accuracy:</b>	forcibly guided
<b>Contact type:</b>	AC 250 V
<b>Nominal output voltage:</b>	DC: see arc limit curve AC: see arc limit curve
<b>Max switching current:</b>	≥ 100 mA
<b>Switching of low loads:</b> (Contact 5 μ Au)	≥ 1 mA
<b>Thermal current <math>I_{th}</math>:</b> in 1 contact path:	Max. 5 A (see quadratic total current limit curve)

<b>Switching capacity</b> to AC 15	NO contact: 3 A / AC 230V IEC/EN 60947-5-1 NC contact: 1 A / AC 230 V IEC/EN 60947-5-1
to DC 13	NO contact: 1 A / DC 24 V IEC/EN 60947-5-1 NC contact: 1 A / DC 24 V IEC/EN 60947-5-1
BH 5928.47, BI 5928.47/100	
NO contact 57/58:	2 A / DC 24 V IEC/EN 60947-5-1
to DC 13	
NO contact:	5 A / 24 V at 0.1 Hz
NC contact:	5 A / 24 V at 0.1 Hz
<b>Electrical life</b> at AC 230 V, 5 A, cos φ = 1:	2 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1
<b>Permissible operating frequency:</b>	Max. 1200 switching cycles / h with manual restart and short release delay time
<b>Short circuit strength</b> max. fuse rating:	6 A gG / gL IEC/EN 60947-5-1
<b>Mechanical life:</b>	10 x 10 <sup>6</sup> switching cycles

## Technical Data

### General Data

<b>Operating mode:</b>	Continuous operation	
<b>Temperature range</b>		
operation:	- 25 ... + 55 °C	
storage :	- 25 ... + 85 °C	
<b>altitude:</b>	≤ 2000 m	
<b>Clearance and creepage distances</b>		
rated impulse voltage / pollution degree:	4 kV / 2 (basis insulation)	IEC 60664-1
<b>EMC</b>	IEC/EN 62061	
Interference suppression:	Limit value class B	EN 55011
<b>Degree of protection</b>		
Housing:	IP 40	IEC/EN 60529
Terminals:	IP 20	IEC/EN 60529
<b>Housing:</b>	Thermoplastic with V0 behaviour according to UL subject 94	
<b>Vibration resistance:</b>	Amplitude 0.35 mm	IEC/EN 60068-2-6
	frequency 10 ... 55 Hz	
<b>Climate resistance:</b>	25 / 055 / 04	IEC/EN 60068-1
<b>Terminal designation:</b>	EN 50005	
<b>Wire fixing:</b>	Box terminal with wire protection, removable terminal strips	
<b>Mounting:</b>	DIN rail	IEC/EN 60715
<b>Weight:</b>		
BH 5928:	400 g	
BI 5928.47/100:	440 g	

### Dimensions

#### Width x height x depth:

BH 5928:	45 x 84 x 121 mm
BI 5928.47/100:	67.5 x 84 x 121 mm

## UL-Data

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

#### Nominal voltage $U_N$

BH 5928:	DC 24 V; AC/DC 24 V
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**Ambient temperature:** -15 ... +55°C

#### Switching capacity:

Ambient temperature 25°C: Pilot duty B300  
5A 250Vac G.P.  
5A 24Vdc

Ambient temperature 55°C: Pilot duty B300  
0,5A 250Vac G.P.  
0,5A 24Vdc

**Wire connection:** 60°C / 75°C copper conductors only  
AWG 20 - 12 Sol Torque 0.8 Nm  
AWG 20 - 14 Str Torque 0.8 Nm



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

## CCC-Data

**Thermal current  $I_{th}$ :** Max. 4 A  
(see quadratic total current limit curve)

#### Switching capacity

to DC 13  
BH5928.47  
NO contact 57/58: 1 A / DC 24 V IEC/EN 60 947-5-1



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

## Troubleshooting

Failure	Potential cause
LED "Power" does not light up	Power supply not connected
LED "K1" lights up, but "K2" remains off	- Safety relay K1 is welded (replace device) - A 1-channel switch-off occurred on S32 (switch channel off on S12, S22 e.g. S31)
LED "K2" lights up, but "K1" remains off	- Safety relay K2 is welded (replace device) - A 1-channel switch-off occurred on S12, S22 e.g. S31 (switch channel off on S32)
LEDs "K1" and "K2" lights up, but "K1" and "K2" remains off	Y39-Y40 are not bridged
Device cannot be activated	- The delay contacts are not yet switched off - Safety relay is welded (replace device) - Manual start mode: Line fault on start-button (disconnect power supply and remove fault) - Automatic start mode: S13-S14 are not bridged

## 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.

### Standard Type

BH 5928.92/61 DC 24 V 0.5 ... 5 s  
 Article number: 0060264  
 • Output: 2 NO contacts, 1 NC contact instantaneous and 3 NO contacts release delayed  
 • Nominal voltage  $U_N$ : DC 24 V  
 • Time delay  $t_v$ : 0.5 ... 5 s  
 • Width: 45 mm

### Variant

BH 5928.\_\_\_/\_\_\_/61: With UL approval  
 BH 5928.\_\_\_/001: With fix time delay  
 fixed times: 1 s, 3 s, 5 s, 10 s, 300s  
 other times on request  
 BH 5928.\_\_\_/900: With adjustable time delay  
 suitable for light curtains and  
 reed contacts switches  
 BI 5928.47/100: With adjustable time delay  
 tolerates voltage drop  
 up to 6 V in e-stop circuit

### Ordering example for variants:

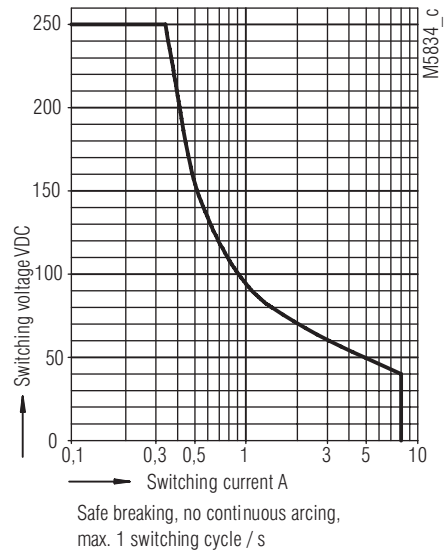
B\_ 5928. \_\_ / \_\_ DC 24 V 50/60 Hz 1 ... 10 s

- 0.1 ... 1 s
- 0.3 ... 3 s
- 0.5 ... 5 s
- 1 ... 10 s
- 30 ... 300 s

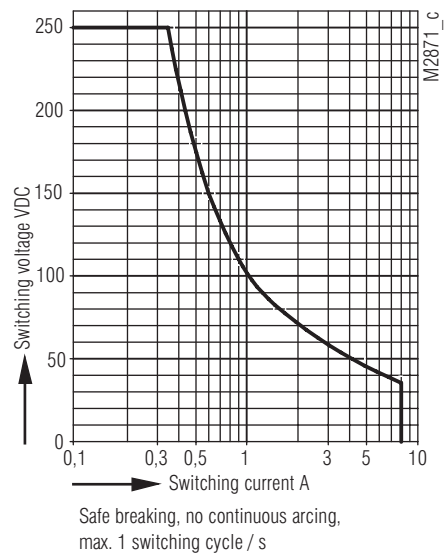
for fixed time end of scale value,  
 other ranges on request

- Nominal frequency
- Nominal voltage
- Variant, if required
- Contacts
- .47 = 3 NO contacts,  
 1 NC contact instantaneous and  
 1 NO contact release delayed
- .91 = 2 NO contacts instantaneous and  
 2 NO contacts release delayed  
 (only at BH 5928)
- .92 = 2 NO contacts,  
 1 NC contact instantaneous and  
 3 NO contacts release delayed
- .93 = 3 NO contacts instantaneous and  
 3 NO contacts release delayed
- H: Width 45 mm
- I: Width 67.5 mm

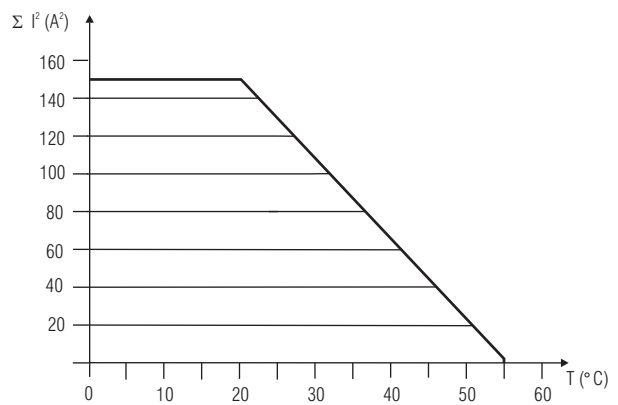
### Characteristics



Arc limit curve (instantaneous contact)



Arc limit curve (delayed contact)



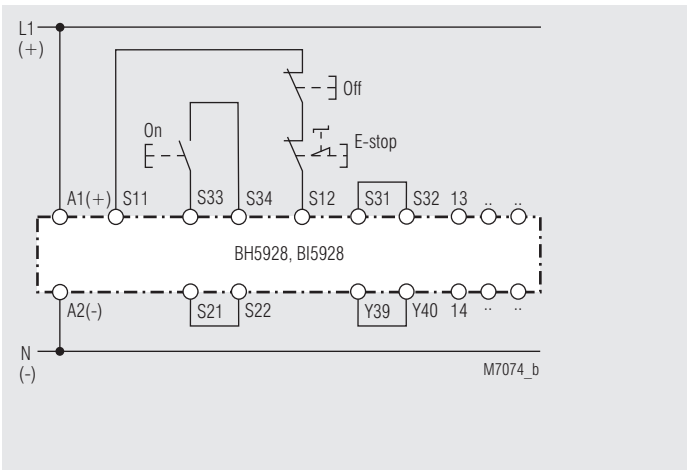
$$\Sigma I^2 = I_1^2 + I_2^2 + \dots + I_6^2$$

$I_1 \div I_6$  - Current in contact paths

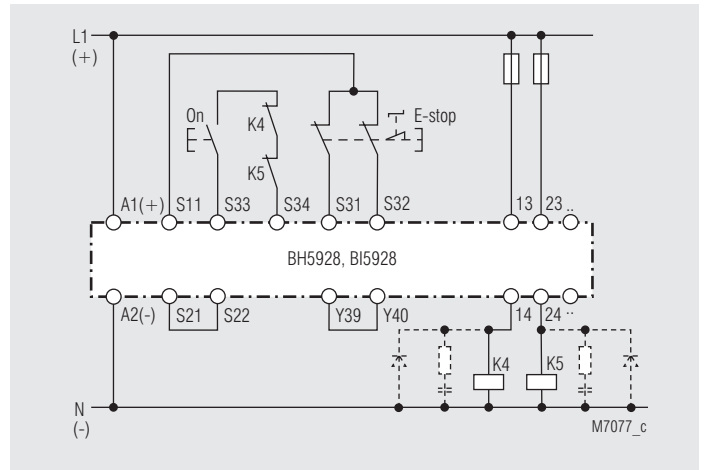
Max. current at 55°C over 3 contact paths = 0,5 A  $\hat{=}$  0,5<sup>2</sup> x 6 = 1,5 A<sup>2</sup>

Quadratic total current limit curve

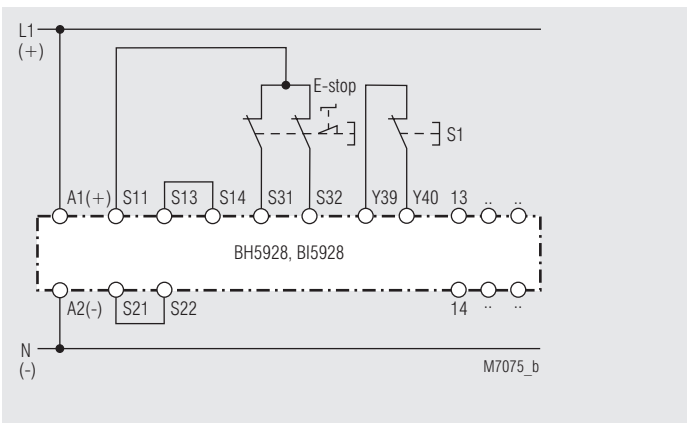
## Application Examples



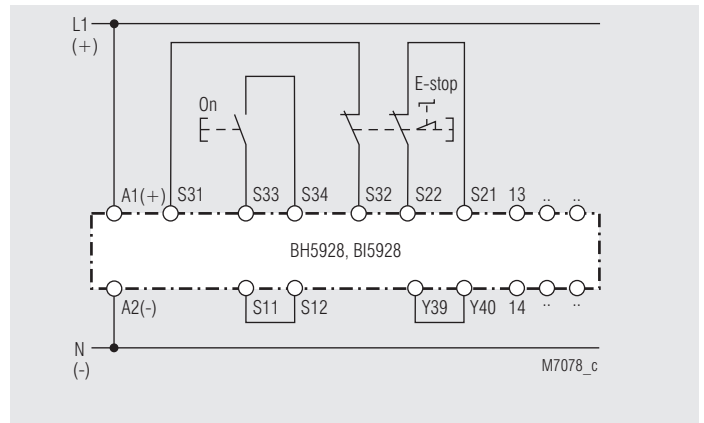
Single channel emergency stop circuit. This circuit does not have any redundancy in the emergency-stop control circuit  
Suited up to SIL2, Performance Level d, Cat. 3



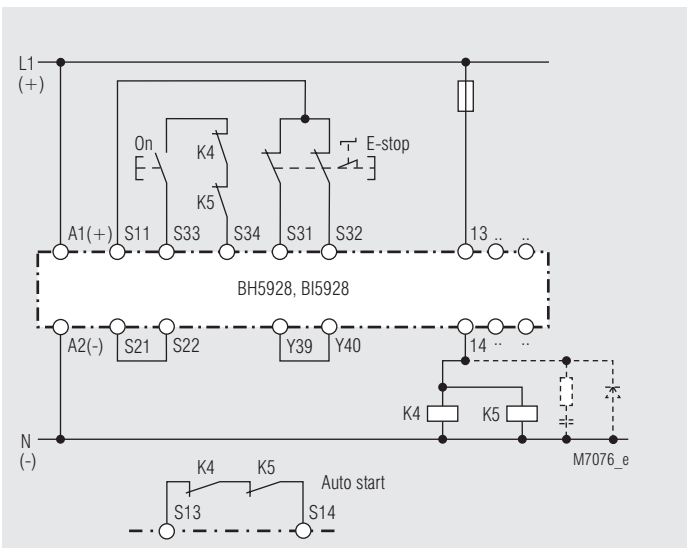
Contact reinforcement by external contactors, 2-channel controlled. The output contacts can be reinforced by external contactors with forcibly guided contacts for switching currents > 5 A.  
Functioning of the external contactors is monitored by looping the NC contacts into the closing circuit (terminals S13-S14 or S33-S34)  
Suited up to SIL3, Performance Level e, Cat. 4



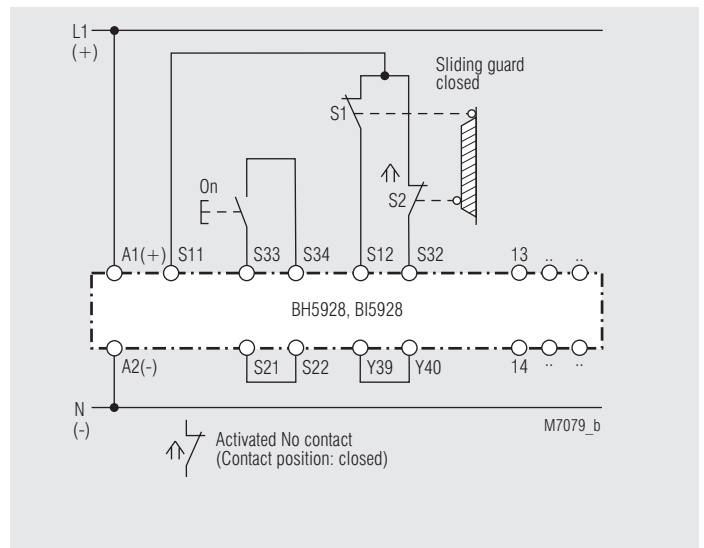
2-channel emergency stop circuit without cross fault monitoring autostart and interruption of time by S1  
Suited up to SIL3, Performance Level e, Cat. 4



2-channel emergency stop circuit with cross fault detection  
Suited up to SIL3, Performance Level e, Cat. 4



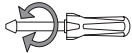
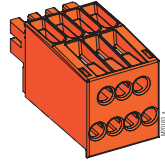
Contact reinforcement by external contactors controlled by one contact path. S33 - S34 must be opened  
Suited up to SIL3, Performance Level e, Cat 4, if the external contactors are in the same cabinet and the wiring is short circuit and crossfault prove.



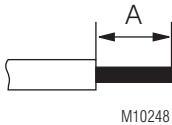
2-channel safety gate monitoring  
Suited up to SIL3, Performance Level e, Cat. 4

DE	Anschlussstechnik
EN	Connection Technology
FR	Technologie de connexion

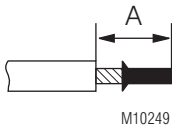
Schraubklemmen, abnehmbar  
Screw terminals, pluggable  
Bornes à vis, amovibles



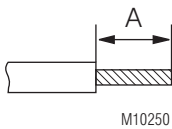
ø 4 mm / PZ 1  
0,8 Nm  
7 LB. IN



A = 10 mm  
1 x 0,5 ... 4 mm<sup>2</sup>  
1 x AWG 20 to 12  
2 x 0,5 ... 1,5 mm<sup>2</sup>  
2 x AWG 20 to 16

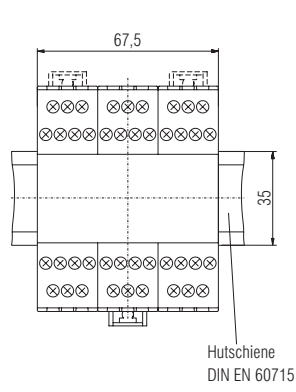
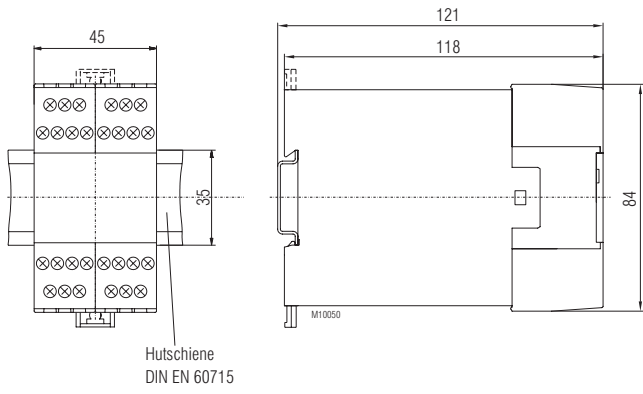


A = 10 mm  
1 x 0,5 ... 2,5 mm<sup>2</sup>  
1 x AWG 20 to 14  
2 x 0,5 ... 1,5 mm<sup>2</sup>  
2 x AWG 20 to 16

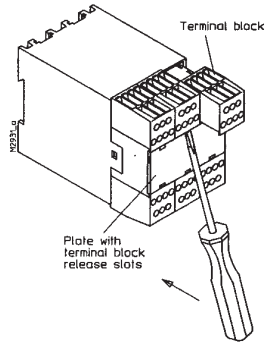
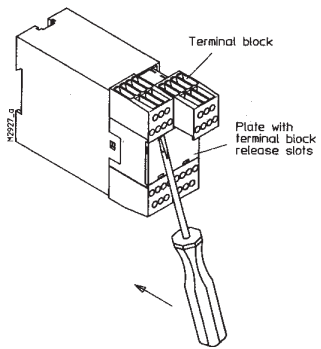


A = 10 mm  
1 x 0,5 ... 4 mm<sup>2</sup>  
1 x AWG 20 to 12  
2 x 0,5 ... 1,5 mm<sup>2</sup>  
2 x AWG 20 to 16

DE	<b>Maßbild (Maße in mm)</b>
EN	<b>Dimensions (dimensions in mm)</b>
FR	<b>Dimensions (dimensions en mm)</b>



DE	<b>Montage / Demontage der Klemmenblöcke</b>
EN	<b>Mounting / disassembly of the terminal blocks</b>
FR	<b>Montage / Démontage des borniers amovibles</b>



DE	<b>Sicherheitstechnische Kenndaten (nur Sofortkontakte)</b>
EN	<b>Safety related data (only instantaneous contacts)</b>
FR	<b>Données techniques sécuritaires (contact instantané)</b>

DE	<b>Sicherheitstechnische Kenndaten (nur verzögerte Kontakte)</b>
EN	<b>Safety related data (only delayed contacts)</b>
FR	<b>Données techniques sécuritaires (contact retardée)</b>

<b>EN ISO 13849-1:</b>		
Kategorie / Category:	4	
PL:	e	
MTTF <sub>d</sub> :	240,5	a (year)
DC <sub>avg</sub> :	99,0	%
d <sub>op</sub> :	365	d/a (days/year)
h <sub>op</sub> :	24	h/d (hours/day)
t <sub>cycle</sub> :	3600	s/cycle
	≥ 1	/h (hour)

<b>EN ISO 13849-1:</b>		
Kategorie / Category:	3	
PL:	d	
MTTF <sub>d</sub> :	217,7	a (year)
DC <sub>avg</sub> :	99,0	%
d <sub>op</sub> :	365	d/a (days/year)
h <sub>op</sub> :	24	h/d (hours/day)
t <sub>cycle</sub> :	3600	s/cycle
	≥ 1	/h (hour)

<b>IEC/EN 62061 IEC/EN 61508 IEC/EN 61511:</b>		
SIL CL:	3	IEC/EN 62061
SIL:	3	IEC/EN 61508 / IEC/EN 61511
HFT <sup>*)</sup> :	1	
DC:	99,0	%
PFH <sub>D</sub> :	2,05E-10	h <sup>-1</sup>
PFD <sub>AVG</sub> :	1,75E-05	(Low Demand Mode)
T <sub>1</sub> :	20	a (year)
*) HFT = Hardware-Fehlertoleranz Hardware failure tolerance Tolérance défauts Hardware		

<b>IEC/EN 62061 IEC/EN 61508 IEC/EN 61511:</b>		
SIL CL:	2	IEC/EN 62061
SIL:	2	IEC/EN 61508 / IEC/EN 61511
HFT <sup>*)</sup> :	1	
DC:	99,0	%
PFH <sub>D</sub> :	2,28E-10	h <sup>-1</sup>
PFD <sub>AVG</sub> :	1,95E-05	(Low Demand Mode)
T <sub>1</sub> :	20	a (year)
*) HFT = Hardware-Fehlertoleranz Hardware failure tolerance Tolérance défauts Hardware		



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.

Anforderung seitens der Sicherheitsfunktion an das Gerät im High Demand Mode Demand to our device based on the evaluated necessary safety level of the application at High Demand Mode Consigne résultant de la fonction sécuritaire de l'appareil au High Demande Mode	Intervall für zyklische Überprüfung der Sicherheitsfunktion Intervall for cyclic test of the safety function 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
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

Anforderung seitens der Sicherheitsfunktion an das Gerät im Low Demand Mode Demand to our device based on the evaluated necessary safety level of the application at Low Demand Mode Consigne résultant de la fonction sécuritaire de l'appareil au Low Demande Mode	Intervall für zyklische Überprüfung der Sicherheitsfunktion Intervall for cyclic test of the safety function Interval du contrôle cyclique de la fonction sécuritaire
nach, acc. to, selon EN 61511	SIL 3 einmal pro Jahr once per year annuel

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:** Not-Aus-Modul mit Zeitverzögerung **BH5928.kk/cc** mit: kk = 47, 91, 92, 93  
*Product description:* Emergency Stop Module with time delay **BH5928.kk/vvz/cc** vv = 00, 11, 90  
**BI5928.47/100** with: z = 0, 1  
*Désignation du produit:* Module d'arrêt d'urgence avec optional ccc = /60 ... / 69  
 temporisation avec:

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 62061:2015  
*Basis of Testing:* EN 61511-1:2017 EN 61508 Parts 1,2 :2010  
*Lignes de contrôle:* 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 machinery directive has been certified by:  
 La conformité d'un échantillon du produit désigné aux directives machines susmentionnées a été certifiée par:

**Benannte Stelle:** TÜV Süd Product Service GmbH  
*Certification office: / l'organisme notifié:* Ridlerstraße 65, 80339 München  
**Nummer der benannten Stelle:** 0123  
*Number of certification office: / Numéro de l'organisme notifié:*  
**Nummer der Bescheinigung:** Z10 040066 0003 Rev. 02  
*Certification number: / Numéro de certificat:*  
**Ausstellungsdatum :** 22.11.2018  
*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, 22.02.2022  
*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	Notizen
EN	Notice
FR	Note

A large grid of graph paper with a dotted line margin on the right side. The grid consists of 20 columns and 30 rows of small squares. The right side of the grid is bordered by a dotted line, and there are 15 horizontal lines extending from the right edge of the grid to the right margin.

