



■ Transportation Solutions

Relays

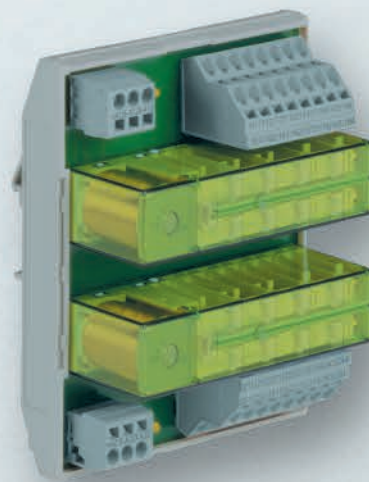
Relay Modules for each application

Relays



Relays - For all common switching applications

**Relays
Positive-action contacts**



Relays - Positive-action contacts
For safety-relevant applications

**Relays
Gas filled**



Relays - Gas filled - For high reliability in critical switching applications

Time Relays



Time Relays- With programmable time functions. Available with standard contacts, positive-action contacts or solid state outputs



Time Relays - With adjustable time functions. Available with standard contacts or with positive-action contacts

Semiconductor Relays



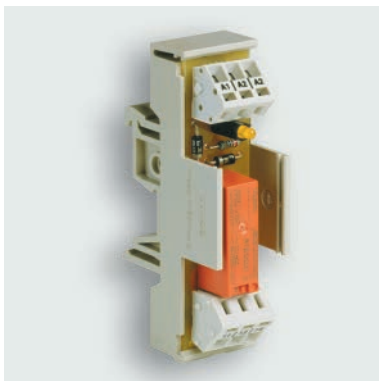
Semiconductor Relays - Wear-resistant contacts for switching of inductive loads

Comply with the standards

EN 50155, EN 50121-3-2, EN 61373 and EN 45545-2

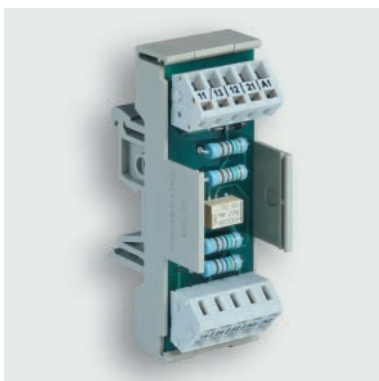
Relay Modules

With standard contacts gold-plated



Relay coupler: 1 CO contact

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716228	Varioprint	22.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 5 A



Relay coupler: 2 CO contacts for smallest loads

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 12 V	716276	Varioprint	30 mm	Spring terminal	AC/DC 100 μ V – 150 V	AC/DC 10 μ A – max. 2 A
DC 110 V	716232	Varioprint	30 mm	Spring terminal	AC/DC 100 μ V – 150 V	AC/DC 10 μ A – max. 2 A

With standard contacts



Relay coupler: 1 CO contact

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716071	Varioprint	30 mm	Spring terminal	DC 16.8 – 31.2 V	DC 0.5 – 10 A

With standard contacts gold-plated



Contact type: 1 CO contact

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 12 V	762120	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 24 V	762332	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 36 V	762333	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 72 V	762335	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 110 V	762336	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
AC 230 V	762337	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
AC/DC 24 V – 230 V	814018	Microcompact	6.2 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A

Compatible jumper combs can be found on page 21.



Contact type: 2 CO contacts

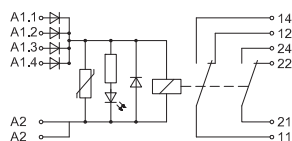
Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	762002	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 72 V	762099	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 110 V	762012	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A



Contact type: 2 CO contacts and 4 decoupling diodes

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	814005.0024	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 36 V	814005.0036	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 72 V	814005.0072	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 110 V	814005.0110	Microcompact	17.5 mm	Spring terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A

Wiring diagram

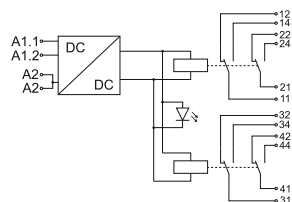


Contact type: 4 CO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 - 110 V	814034	Microcompact	22.5 mm	Push-In terminal	AC/DC 1 – 150 V	AC/DC 1 mA – 6 A

The device is controlled via either A1.1 or A1.2 using DC 24–110 V. The switching threshold is 33 V for A1.1 and 13 V for A1.2.

Wiring diagram



Relay Modules

Positive-action contacts according to IEC 61810-3 type A



Contact type: 1 NC contact, 2 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	814012.0024	Microcompact	17.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 3 mA – 10 A
DC 36 V	814012.0036	Microcompact	17.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 3 mA – 10 A
DC 72 V	814012.0072	Microcompact	17.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 3 mA – 10 A
DC 110 V	814012.0110	Microcompact	17.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 3 mA – 10 A



Contact type: 2 NC contacts, 2 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	814001	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A



Contact type: 1 NC contact, 3 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	814002	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A



Contact type: 2 NC contacts, 4 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	762089	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A
DC 36 V	762095	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A
DC 48 V	814009.0048	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A
DC 72 V	814009.0072	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A
DC 110 V	762090	Microcompact	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC/DC 5 mA – 6 A

Safety Relay Modules with positive-action contacts according to IEC 61810-3 type A

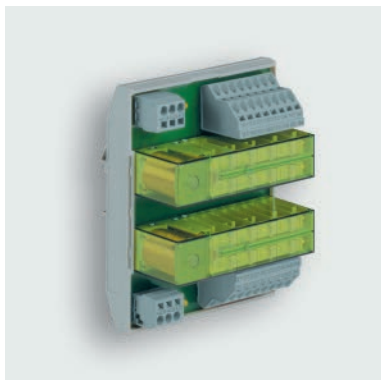


Contact type: 2 NC contacts, 4 NO contacts

Input voltage	Part-No.	Width	Termination	Switching voltage	Switching current
DC 24 V	814031.0024	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC /DC 5 mA – 6 A
DC 36 V	814031.0036	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC /DC 5 mA – 6 A
DC 48 V	814031.0048	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC /DC 5 mA – 6 A
DC 72 V	814031.0072	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC /DC 5 mA – 6 A
DC 110 V	814031.0110	22.5 mm	Push-In terminal	AC/DC 5 – 250 V	AC /DC 5 mA – 6 A

Suitable to be used in safety applications up to SIL 2, when adhering to specified safety application conditions (SAC).

Positive-action contacts according to IEC 61810-3 type A, 2-channel



Contact type: 2 NC contacts, 6 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716375	Varioprint	91.5 mm	Spring terminal	AC/DC 5 – 150 V	AC/DC 10 mA – 5 A

Contact type: 4 NC contacts, 4 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716306	Varioprint	91.5 mm	Spring terminal	AC/DC 5 – 150 V	AC/DC 10 mA – 5 A
DC 48 V	814026.0048	Varioprint	91.5 mm	Spring terminal	AC/DC 5 – 150 V	AC/DC 10 mA – 5 A
DC 110 V	716305	Varioprint	91.5 mm	Spring terminal	AC/DC 5 – 150 V	AC/DC 10 mA – 5 A

Contact type: 1 NC contact, 7 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 110 V	814007.0110	Varioprint	91.5 mm	Spring terminal	AC/DC 5 – 150 V	AC/DC 10 mA – 5 A

Relay Modules

Positive-action contacts according to IEC 61810-3 type A



Contact type: 3 NC contacts, 5 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716302	Varioprint	90 mm	Spring terminal	AC/DC 5 – 250 V	AC/DC 10 mA – 6 A
DC 110 V	716303	Varioprint	90 mm	Spring terminal	AC/DC 5 – 250 V	AC/DC 10 mA – 6 A

Contact type: 1 NC contact, 7 NO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716307	Varioprint	90 mm	Spring terminal	AC/DC 5 – 250 V	AC/DC 10 mA – 6 A

Gas filled / positive-action contacts, monostable



Contact type: 4 CO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	716331	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A
DC 36 V	716332	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A
DC 48 V	814016.0048	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A
DC 72 V	716333	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A
DC 110 V	716334	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A

Gas filled / positive-action contacts, bistable



Contact type: 4 CO contacts

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V	814003.0024	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A
DC 110 V	814003.0110	Varioprint	50 mm	Pluggable spring terminal	AC/DC 5 – 250 V	AC/DC 1 mA – 4 A

Current Pulse Relays

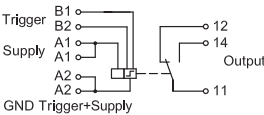
With supply voltage DC 24-110 V



Contact type: 1 CO contact

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V / 36 V	762087	Microcompact	17.5 mm	Push-In terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A
DC 24 V / 110 V	762059	Microcompact	17.5 mm	Push-In terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A

Wiring diagram



Without supply voltage

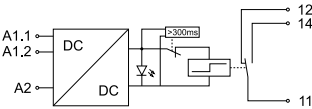


Contact type: 1 CO contact

Input voltage	Part-No.	Form	Width	Termination	Switching voltage	Switching current
DC 24 V – 110 V	814033	Microcompact	17.5 mm	Push-In terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 6 A

The device is controlled via either A1.1 or A1.2 using DC 24–110 V. The switching threshold is 33 V for A1.1 and 13 V for A1.2. The switch state is stored mechanically. 300 ms after the input voltage is applied, the relay control is internally turned off for significantly reduced power consumption.

Wiring diagram



Programmable Time Relays

With standard contacts gold-plated



Contact type: 2 CO contacts

Input voltage	Part-No.	Width	Termination	Switching voltage	Switching current
DC 24 – 110 V	815000.00	22.5 mm	Push-In terminal	AC/DC 1 – 250 V	AC/DC 1 mA – 4 A

This Time Relay can be parameterized using the free software LÜTZE Config Tool. The different operation modes are shown on page 11 to 13. On request it can be delivered parameterized ex works according to customer specifications. Wide range supply voltage and wide range control voltage allow operation on all standard on-board supplies between DC 24 V and DC 110 V.

USB service cable for downloading the parameter set on the time relay can be found on page 21.

Positive-action contacts according to IEC 61810-3 type A



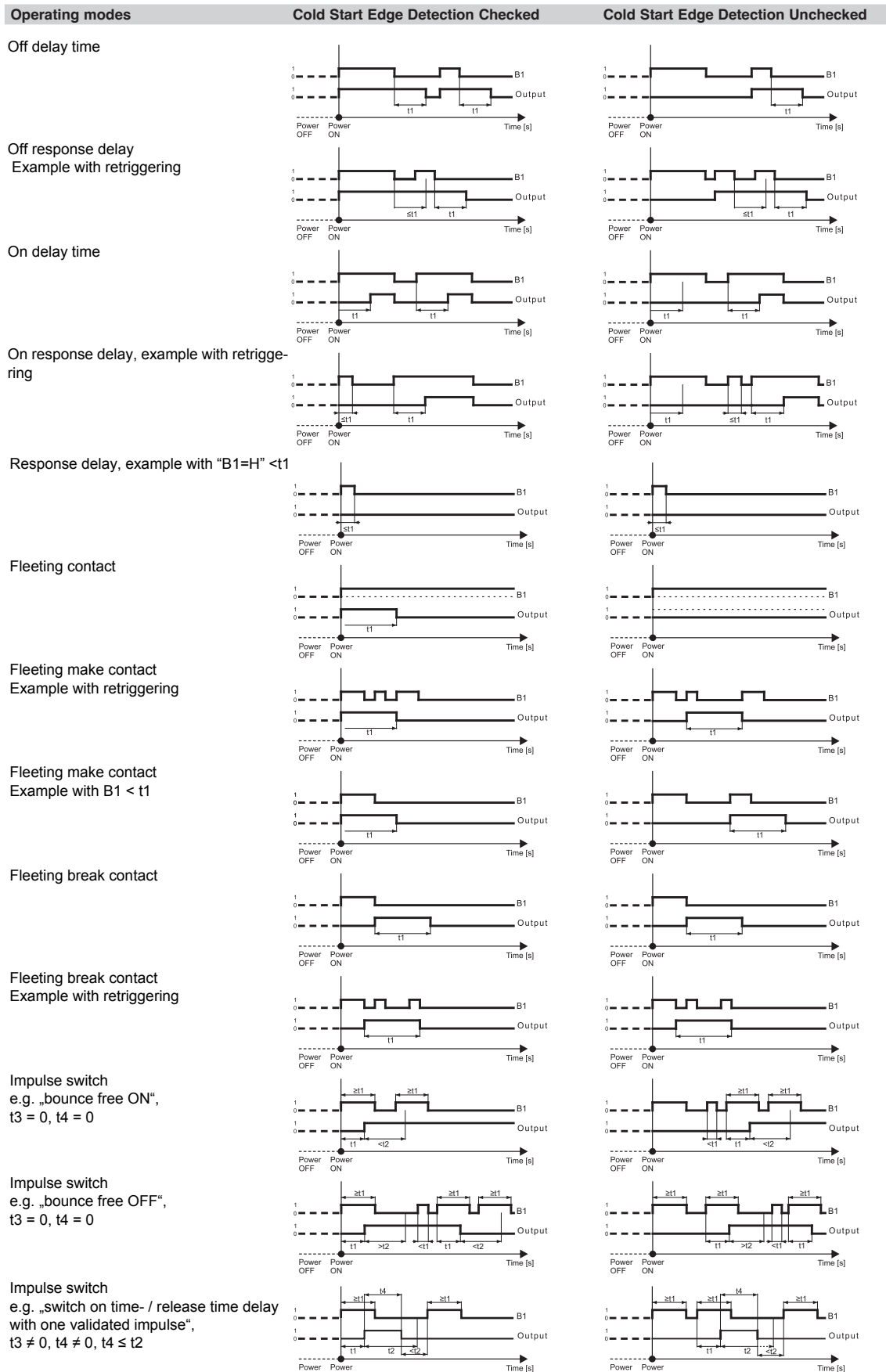
Contact type: 1 NC contact, 2 NO contacts

Input voltage	Part-No.	Width	Termination	Switching voltage	Switching current
DC 24 – 110 V	815008.00	22.5 mm	Push-In terminal	AC/DC 5 – 140 V	AC/DC 5 mA – 5 A

This Time Relay can be parameterized using the free software LÜTZE Config Tool. The different operation modes are shown on page 11 to 13. On request it can be delivered parameterized ex works according to customer specifications. Wide range supply voltage and wide range control voltage allow operation on all standard on-board supplies between DC 24 V and DC 110 V.

USB service cable for downloading the parameter set on the time relay can be found on page 21.

Programmable Time Relays



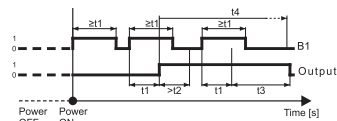
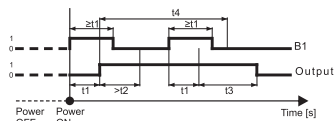
Programmable Time Relays

Operating modes

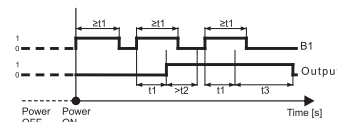
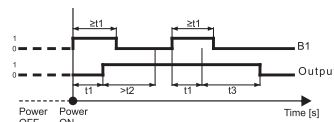
Cold Start Edge Detection Checked

Cold Start Edge Detection Unchecked

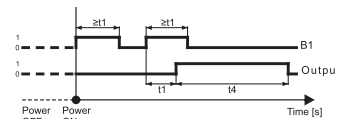
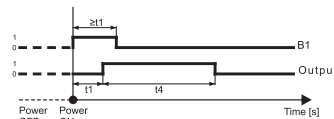
Impulse switch
e.g. „validated switch off impulse“,
 $t_3 \neq 0$, $t_4 \neq 0$



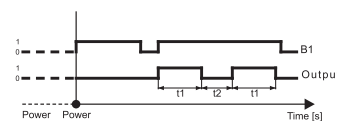
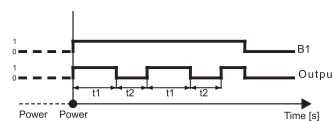
Impulse switch
e.g. „release time delay OFF with switch
off delay“,
 $t_3 \neq 0$, $t_4 = 0$



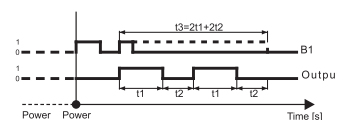
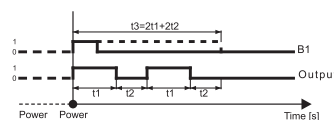
Impulse switch
e.g. „release time delay automatic OFF“,
 $t_3 = 0$, $t_4 \neq 0$



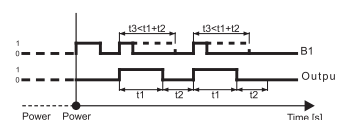
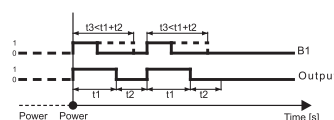
Clock generator starting with impulse
 $t_3 = 0$



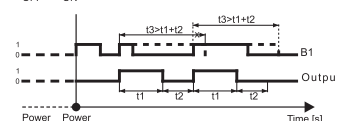
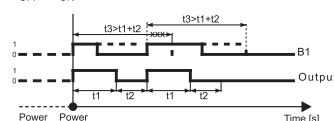
Clock generator starting with impulse
 $t_3 \neq 0$ and $t_3 = 2t_1 + 2t_2$



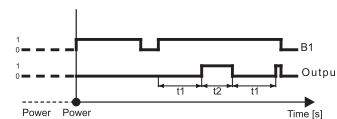
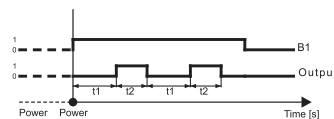
Clock generator starting with impulse
 $t_3 \neq 0$ and $t_3 < t_1 + t_2$



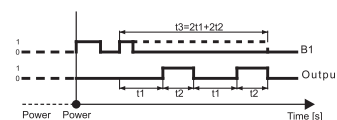
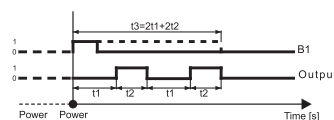
Clock generator starting with impulse
 $t_3 \neq 0$ and $t_3 > t_1 + t_2$



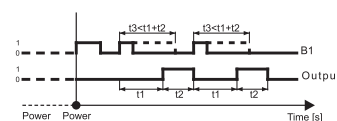
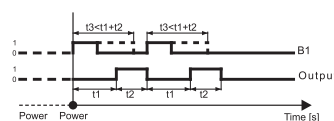
Clock generator starting with pause
 $t_3 = 0$



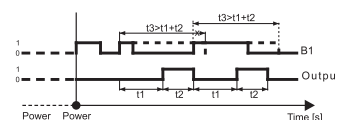
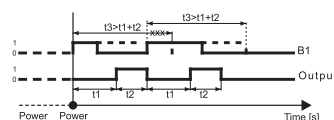
Clock generator starting with pause
 $t_3 \neq 0$ and $t_3 = 2t_1 + 2t_2$



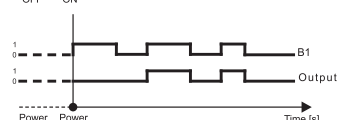
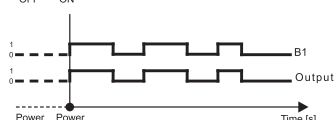
Clock generator starting with pause
 $t_3 \neq 0$ and $t_3 < t_1 + t_2$



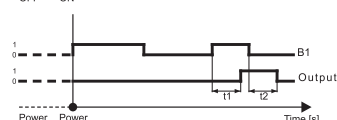
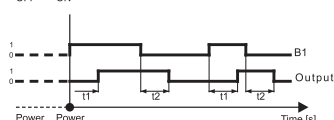
Clock generator starting with pause
 $t_3 \neq 0$ and $t_3 > t_1 + t_2$



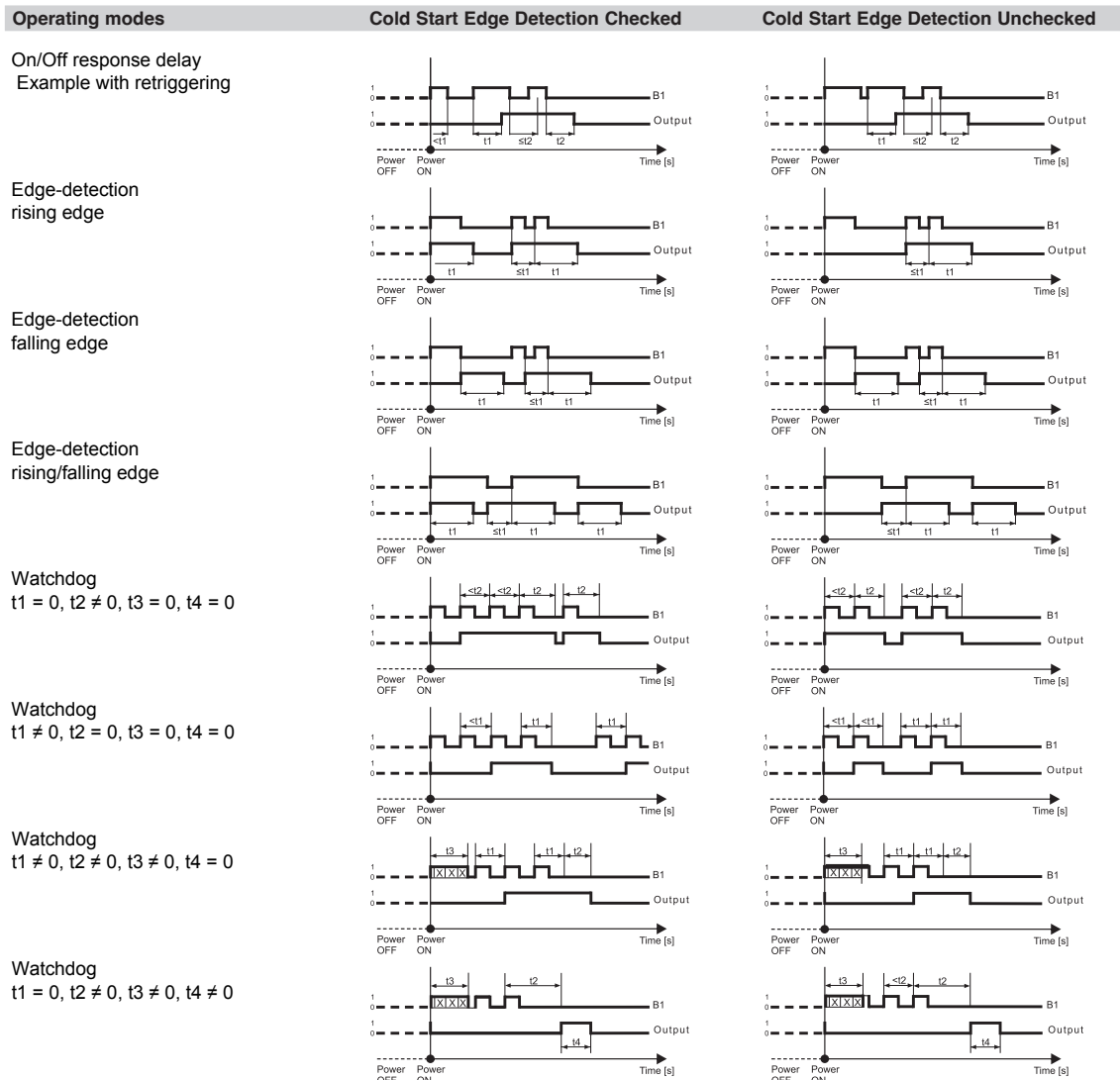
Instant contact



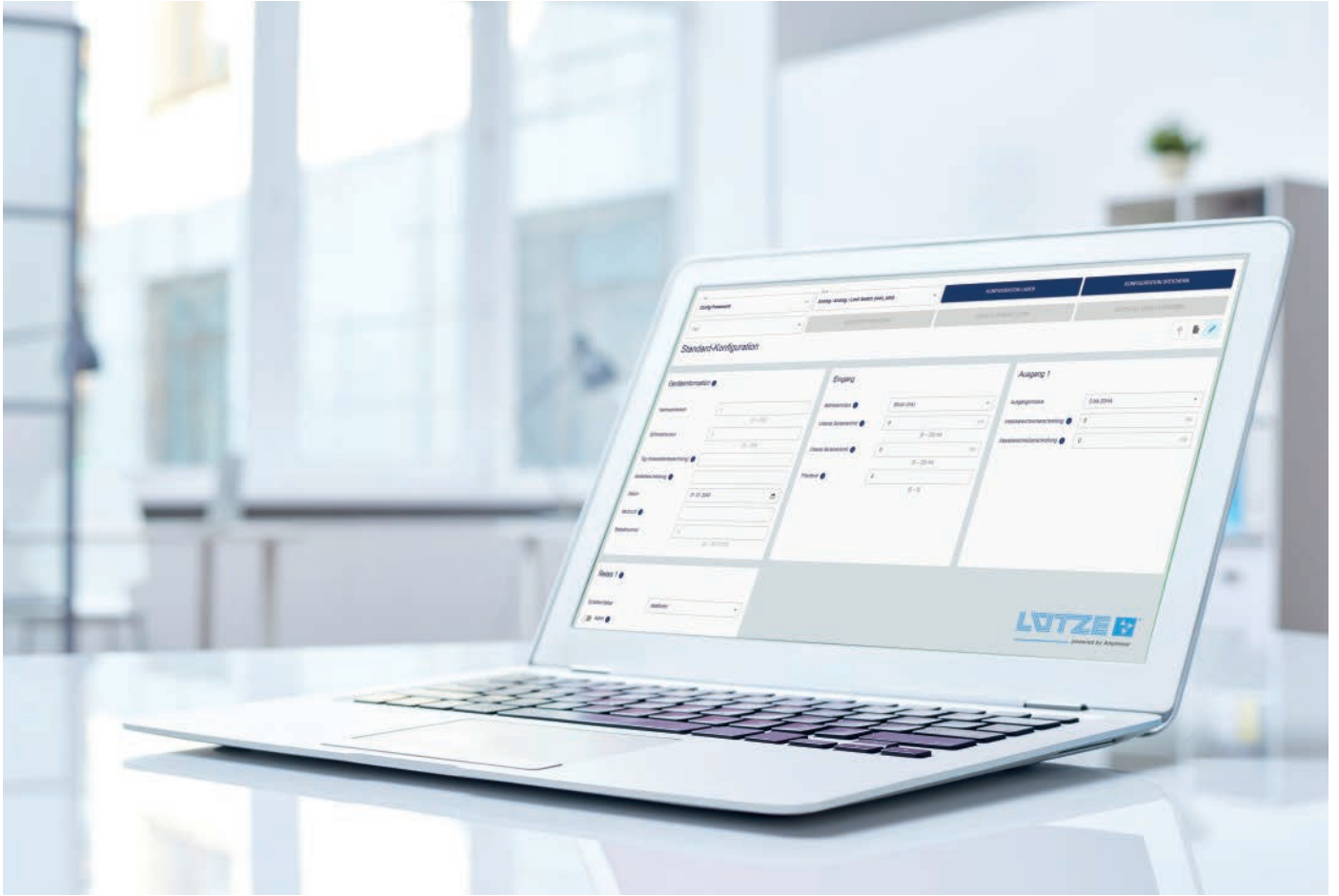
On/off delay time



Programmable Time Relays



LÜTZE Config Tool: fast, easy and comfortable



The LÜTZE Config Tool makes it easy and intuitive to configure the programmable time relays.

As an option, the time relays can be delivered ex works with parameters set according to customer specifications.

Adjustable Time Relays

With standard contacts

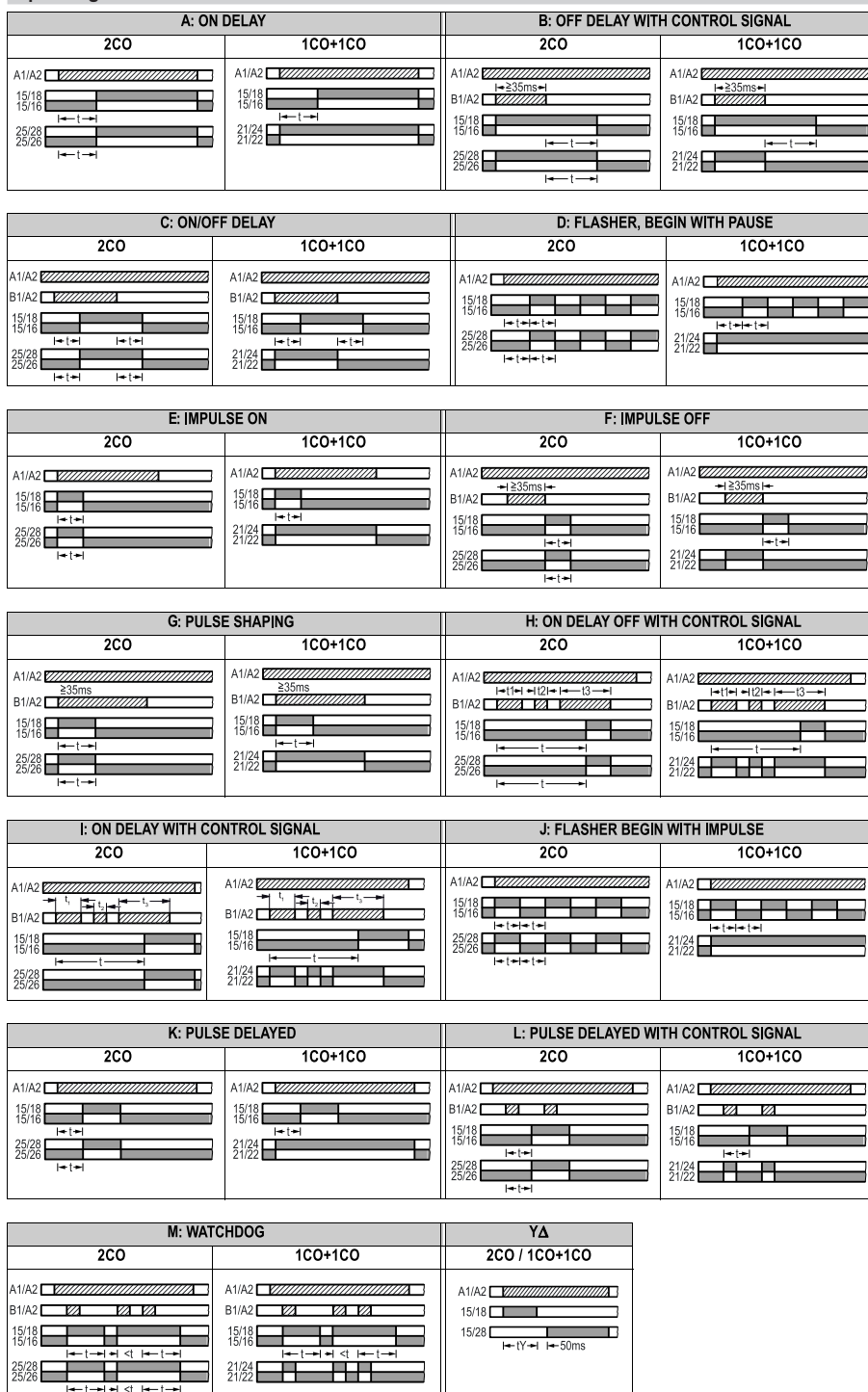


Contact type: 2 CO contacts

Input voltage	Part-No.	Width	Termination	Switching voltage	Switching current
AC/DC 12 – 240 V	815011.00	22.5 mm	Push-In terminal	AC/DC 17 – 250 V	AC/DC 5 mA – 3 A

27 different functions and 7 time ranges can be selected via rotary switches. A wide-range supply for AC/DC 12 - 240 V allows operation on all standard on-board voltages.

Operating modes



Adjustable Time Relays

Positive-action contacts according to IEC 61810-3 type B



Contact type: 2 CO contacts

Input voltage	Part-No.	Width	Termination	Switching voltage	Switching current
DC 24 – 240 V	815012.00	22.5 mm	Push-In terminal	AC/DC 17 – 250 V	AC/DC 5 mA – 3 A

13 different functions can be selected via rotary switches. A wide-range supply for AC/DC 24 - 240 V allows operation on all standard on-board voltages.

Operating modes

A: ON DELAY 2CO 	B: OFF DELAY WITH CONTROL SIGNAL 2CO
C: ON/OFF DELAY 2CO 	D: FLASHER, BEGIN WITH PAUSE 2CO
E: IMPULSE ON 2CO 	F: IMPULSE OFF 2CO
G: PULSE SHAPING 2CO 	H: ON DELAY OFF WITH CONTROL SIGNAL 2CO
I: ON DELAY WITH CONTROL SIGNAL 2CO 	J: FLASHER BEGIN WITH IMPULSE 2CO
K: PULSE DELAYED 2CO 	L: PULSE DELAYED WITH CONTROL SIGNAL 2CO
M: WATCHDOG 2CO 	

Semiconductor Relays

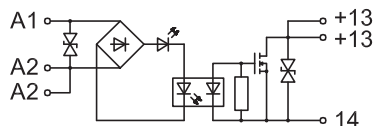
Form Microcompact



Switching current: DC 5 A / **Switching voltage:** < DC 50 V

Input voltage	Part-No.	Width	Termination	Switching capacity	Switching voltage	Switching current
DC 24 – 36 V	762113	6.2 mm	Spring terminal	max. 250 W	< DC 50 V	DC 5 A

Wiring diagram



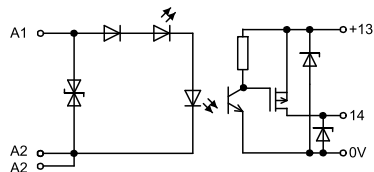
Compatible jumper combs can be found on page 21.



Switching current:
DC 1 A, short-circuit protected / **Switching voltage:** < DC 137.5 V

Input voltage	Part-No.	Width	Termination	Switching capacity	Switching voltage	Switching current
DC 24 – 110 V	762114	6.2 mm	Spring terminal	max. 140 W	< DC 137.5 V	max. DC 1 A

Wiring diagram



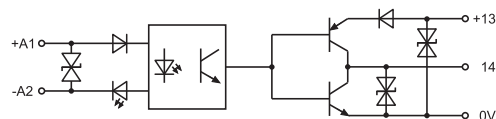
Compatible jumper combs can be found on page 21.



Switching current: 20 mA / **Switching frequency:** max. 20 kHz,
with push-pull output / **Switching voltage:** < DC 33.6 V

Input voltage	Part-No.	Width	Termination	Switching capacity	Switching voltage	Switching current
DC 15 V	816006.0015	6.2 mm	Spring terminal	max. 20 kHz	< DC 33.6 V	max. DC 20 mA
DC 24 V	816006.0024	6.2 mm	Spring terminal	max. 20 kHz	< DC 33.6 V	max. DC 20 mA

Wiring diagram



Compatible jumper combs can be found on page 21.

Semiconductor Relays

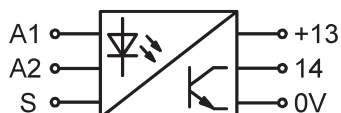
Form Microcompact



Switching current: DC 10 A, short-circuit protected /
diagnostic output / **Switching voltage:** < DC 33.6 V

Input voltage	Part-No.	Switching frequency	Termination	Switching voltage	Switching current
DC 24 – 36 V	816001.0024	< 25 Hz	Push-In terminal	< DC 33.6 V	max. DC 10 A
DC 72 – 110 V	816001.0110	< 25 Hz	Push-In terminal	< DC 33.6 V	max. DC 10 A

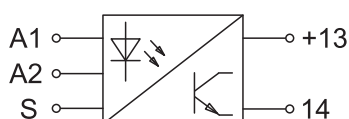
Wiring diagram



Switching current: DC 7 A, short-circuit protected /
diagnostic output / **Switching voltage:** < DC 154 V

Input voltage	Part-No.	Switching frequency	Termination	Switching voltage	Switching current
DC 24 – 110 V	816002.0024	< 100 Hz	Push-In terminal	< DC 154 V	max. DC 7 A
DC 72 – 110 V	816002.0110	< 100 Hz	Push-In terminal	< DC 154 V	max. DC 7 A

Wiring diagram



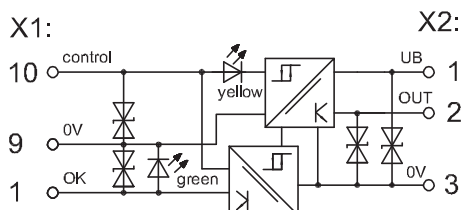
Form Varioprint



Switching current: DC 20 A, short-circuit protected /
diagnostic output / **Switching voltage:** < DC 45 V

Input voltage	Part-No.	Switching frequency	Switching voltage	Switching current
DC 24 – 36 V	816018	< 25 Hz	< DC 45 V	max. DC 20 A

Wiring diagram



Semiconductor Relays

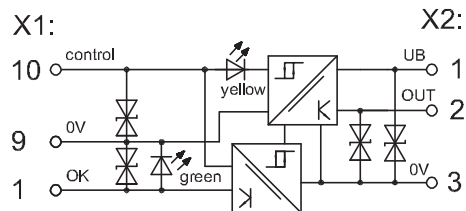
Form Varioprint



Switching current: DC 40 A, short-circuit protected /
diagnostic output / **Switching voltage:** < DC 45 V

Input voltage	Part-No.	Switching voltage	Switching current
DC 24 - 36 V	816010	< DC 45 V	max. DC 40 A

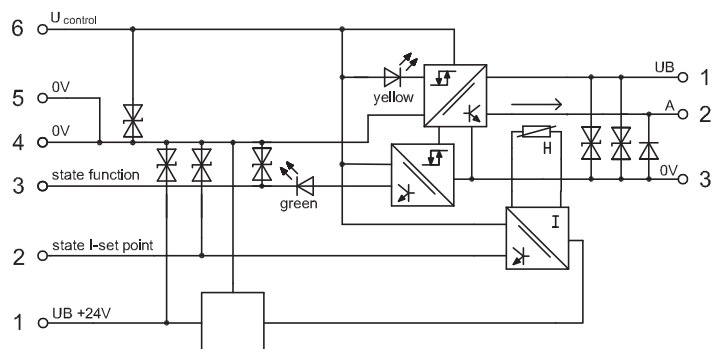
Wiring diagram



Switching current: DC 60 A, short-circuit protected /
diagnostic output / **Switching voltage:** < DC 45 V

Input voltage	Part-No.	Switching voltage	Switching current
DC 24 - 36 V	816012	< DC 45 V	max. DC 60 A

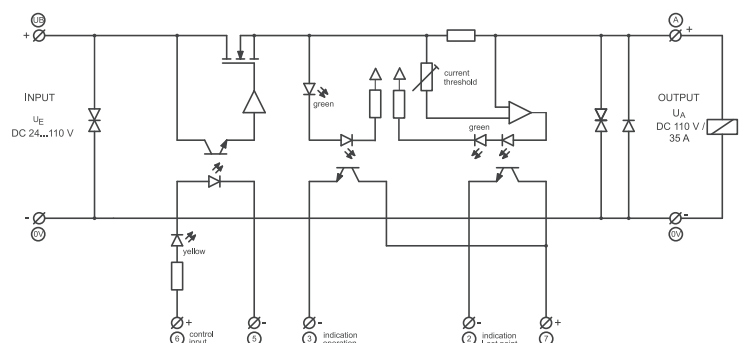
Wiring diagram



Switching current: DC 35 A, short-circuit protected /
diagnostic output / **Switching voltage:** < DC 137.5 V

Input voltage	Part-No.	Switching voltage	Switching current
DC 24 - 110 V	816020.0024	DC 77 - 137.5 V	max. DC 35 A
DC 72 - 110 V	816020.0110	DC 77 - 137.5 V	max. DC 35 A

Wiring diagram



Semiconductor Time Relays

Programmable Semiconductor Time Relays



2 outputs

Input voltage	Part-No.	Width	Termination	Switching voltage	Switching current
DC 24 – 110 V	815006.00	22.5 mm	Push-In terminal	DC 16.8 – 33.6 V	max. DC 3 A per output
DC 24 – 110 V	815007.00	22.5 mm	Push-In terminal	DC 16.8 – 137.5 V	max. DC 1 A per output

These Semiconductor Time Relay can be parameterized using the free software LÜTZE Config Tool. The different operation modes are shown on page 11 to 13. On request they can be delivered parameterized ex works according to customer specifications. Wide range supply voltage and wide range control voltage allow operation on all standard on-board supplies between DC 24 V and DC 110 V.

USB service cable for downloading the parameter set on the semiconductor time relay can be found on page 21.

Railway Technology Competence



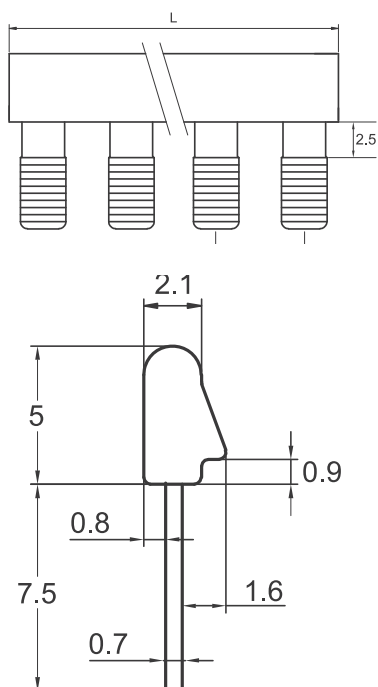
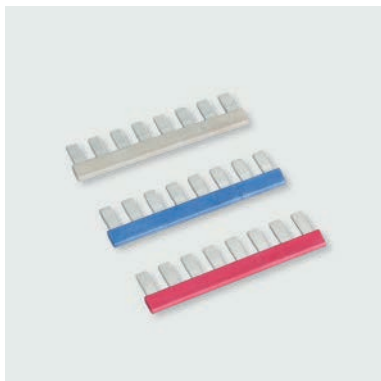
LÜTZE has been developing and manufacturing electrical components for rail vehicles for over 40 years. Our extensive product range of standard components carries out many automation tasks in the most diverse vehicle applications.

Are you still looking for the appropriate product adapted to suit your specific application?

Get in touch with us. Our developers help you to find the best solution for your product, including the specification and design for the application on the vehicle, regardless of whether you need components for your control technology, interface components or optical and acoustic signals.

Accessories

Jumper combs



Description	Colour	Part-No.	Rated current	Length	Weight
2 pole	red	762802	DC 6 A	12.4 mm	1.0 g / piece
	white	762803	DC 6 A	12.4 mm	1.0 g / piece
	blue	762804	DC 6 A	12.4 mm	1.0 g / piece
3 pole	red	762805	DC 6 A	18.6 mm	1.5 g / piece
	white	762806	DC 6 A	18.6 mm	1.5 g / piece
	blue	762807	DC 6 A	18.6 mm	1.5 g / piece
4 pole	red	762812	DC 6 A	24.8 mm	2.0 g / piece
	white	762813	DC 6 A	24.8 mm	2.0 g / piece
	blue	762814	DC 6 A	24.8 mm	2.0 g / piece
8 pole	red	762822	DC 6 A	49.6 mm	3.0 g / piece
	white	762823	DC 6 A	49.6 mm	3.0 g / piece
	blue	762824	DC 6 A	49.6 mm	3.0 g / piece
16 pole	red	762832	DC 6 A	99.2 mm	4.0 g / piece
	white	762833	DC 6 A	99.2 mm	4.0 g / piece
	blue	762834	DC 6 A	99.2 mm	4.0 g / piece

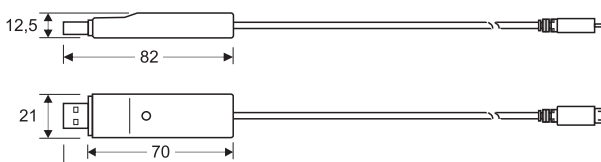
General Information	2 pole	3 pole	4 pole	8 pole	16 pole
Contact material	tin-plated copper				
Contact design	Flat contact 0.5 mm Ribbing on both sides				
Pin spacing	6.2 mm				
Material of housing	Vectra C130				
Colour	red / white / blue				
Flammability according to UL 94	V0				
Mounting	pluggable				
Storage temperature range	- 40 °C ... + 80 °C				
Operation temperature range	- 40 °C ... + 80 °C				

USB service cable



Input voltage	Part-No.	Weight	Operation temperature range
USB A - Micro USB	815900	0.035 kg / piece	0 °C ... 40 °C

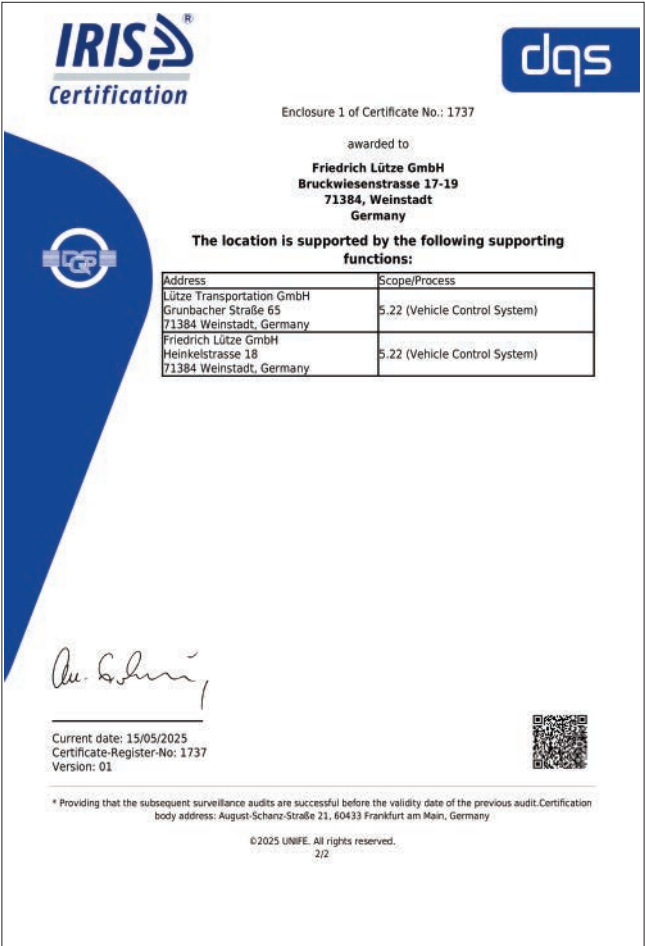
The USB service cable can be used for the parameterization of Time Relays. For this case there is the driver software "LCON ZB USB Driver" available. The cable includes an galvanic isolated RS232 to USB interface.



Certificate

LÜTZE is ISO 22163:2023 / IRIS Rev.04 certified

In 2007, LÜTZE was among the first 25 companies worldwide to obtain the new Railway Industry Standard IRIS certification. In 2024, the IRIS Rev.04 standard was successfully met. With the transition to the ISO 22163:2023 Standard IRIS goes significantly further than the requirements of the ISO 9001 standard and incorporates additional railway-specific requirements.

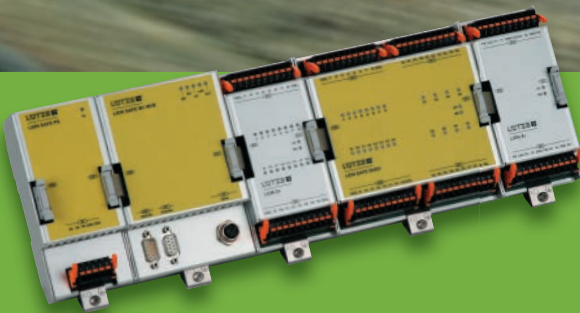


As a specialist for electronic components in rail vehicles, LÜTZE is aware of the high standards that your applications require from our products. Based on this quality awareness and our claim of supporting you with the latest technologies and designing your products reliably and cost-effectively, we have developed into the leading supplier in this market. In addition to the certification according to DIN EN ISO 9001:2015 LÜTZE also documents its leading position by means of a certified management system in accordance with the International Railway Industry Standard, IRIS.

IRIS is a standardized method used worldwide for assessing the management systems of suppliers, which takes specific standards for the rail vehicle industry into account. With the IRIS certification, we have made another important step in the continual improvement of collaboration with you, our customers from the rail industry and we are looking forward to support you even better in your next projects.

We are on Track!

Electronic control for rail vehicles



Control Technology



Interface



Indication



www.luetze-transportation.com

LUTZE 
TRANSPORTATION
powered by Amphenol

Germany

Lütze Transportation GmbH
Bruckwiesenstraße 17-19
D-71384 Weinstadt
Tel.: +49 71 51 6053-545
sales.transportation@luetze.de

USA

Lutze Inc.
Tel.: +1 704 504-0222
info@lutze.com

United Kingdom

Lutze Ltd.
Tel.: +44 1827 31333-0
sales.gb@lutze.co.uk

Spain

Lutze S.L.
Tel.: +34 93 2857480
info@lutze.es

China

Lutze Trading (Shanghai) Co. Ltd.
Tel.: +86 21 32580670
info@luetze.cn

www.lutze-transportation.com