

FSKIT 24VDC 5NO1NC FG LD AGSNO AU**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

The SAFESERIES Contact Extension uses relays with forcibly guided contacts in accordance with EN 61810-3 Type A. This makes it predestined for signal monitoring in applications for the protection of people and machinery. It ensures safe feedback to the control level. Consisting of 5 different pluggable relays with matching screw sockets in the contact version 2 NO + 2 NC, 3 NO + 1 NC, 4 NO + 2 NC, 3 NO + 3 NC and 5 NO + 1 NC. When the application is designed according to EN/ISO 13849-1, a performance level of PL "e" can be achieved. The basic component is also suitable for safety applications according to IEC/EN 62061 in order to achieve a safety integrity level of SIL3.

- Relay with forcibly guided contacts to EN 61810-3 type A
- cULus listed approval for high acceptance on the North American market
- CQC approval for conformity with Chinese quality standards
- Assembled and 100 % functionally tested KIT consisting of relay and socket with integrated status LED
- Diagnosis coverage of 99 %

General ordering data

Version	SAFESERIES, Relay module with positively driven contacts 1 NC and 5 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No
Order No.	2860020000
Type	FSKIT 24VDC 5NO1NC FG LD AGSNO AU
GTIN (EAN)	4064675574729
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	59.8 mm	Depth (inches)	2.354 inch
Height	89.4 mm	Height (inches)	3.52 inch
Width	29.8 mm	Width (inches)	1.173 inch
Net weight	63.3 g		

Temperatures

Storage temperature	-40 °C...70 °C	Ambient temperature	-25 °C...55 °C
Operating temperature	-40 °C...70 °C	Humidity	5...85 % rel. humidity, no condensation

Rated data UL

Ambient temperature (operational), max. 70 °C		Connection cross-section AWG, min.	AWG 20
Connection cross-section AWG, max.	AWG 16	Type of conductor	rigid copper conductor, flexible copper conductor
Tightening torque, max.	1 Nm		

Control side

Rated control voltage	24 V DC $\pm$ 10 %	Rated current DC	25.5 mA
Power rating	620 mW	Status indicator	Green LED
Protective circuit	Free-wheeling diode		

Load side

Rated switching voltage	250 V AC	Continuous current	6 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	400 V
Max. switching voltage, DC	250 V	Inrush current	30 A / 20 ms
AC switching capacity (resistive), max.	1500 VA	DC switching capacity (resistive), max.	144 W @ 24 V
Switch-on delay	$\leq$ 20 ms	Switch-off delay	$\leq$ 20 ms
Contact type	1 NC and 5 NO contacts forcibly guided (EN 61810-3 type A) (AgSnO gold-plated)	Mechanical service life	10 x 10 ⁶ switching cycles
Min. switching power	2 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		

General data

Operating altitude	$\leq$ 2000 m, above sea level		
Rail	TS 35		
Test button available	No		
Mechanical switch position indicator	No		
Colour	Anthracite		
UL 94 flammability rating	V-2		
UL94 flammability rating component	Component	Socket	
	UL94 flammability rating	V-2	
	Component	Relay cover	
	UL94 flammability rating	V-2	
	Component	Relay baseplate	
	UL94 flammability rating	V-0	

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Insulation coordination

Insulation coordination according to	IEC 61984	Rated voltage	250 V
Pollution severity	2	Surge voltage category	III
Clearance and creepage distances for control side - load side	≥ 3 mm	Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Type of isolation at input and output	Basic insulation	Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Type of isolation at neighbouring contacts	Basic insulation	Dielectric strength of open contact	1.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.	Impulse withstand voltage at input and output	2.5 kV
Impulse withstand voltage at neighbouring contacts	2.5 kV	Protection degree	IP10

Further details of approvals / standards

Certificate no. (cULus)	E223474
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Connection data

Wire connection method	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	1 Nm
Clamping range, rated connection	1.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	1.5 mm ²	Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.5 mm ²
Wire cross-section, solid, max.	1.5 mm ²	Wire cross-section, solid, min. (AWG)	AWG 20
Wire cross-section, solid, max. (AWG)	AWG 14	Wire connection cross section, finely stranded, min.	0.5 mm ²
Wire connection cross section, finely stranded, max.	1.5 mm ²	Wire cross-section, finely stranded, min. (AWG)	AWG 20
Wire cross-section, finely stranded, max. (AWG)	AWG 14	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	0.75 mm ²		

Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
ETIM 8.0	EC001437	ETIM 9.0	EC001437
ECLASS 9.0	27-37-16-01	ECLASS 9.1	27-37-16-01
ECLASS 10.0	27-37-16-01	ECLASS 11.0	27-37-16-01
ECLASS 12.0	27-37-16-01	ECLASS 13.0	27-37-16-01
ECLASS 14.0	27-37-16-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	19f8b897-8687-40cb-b680-a1c1db5fdebc

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www.weidmueller.com**Technical data****Approvals**

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E223474

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Software	Library and function block – SISTEMA library 2.0
Catalogues	Catalogues in PDF-format

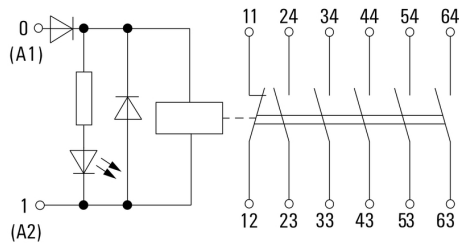
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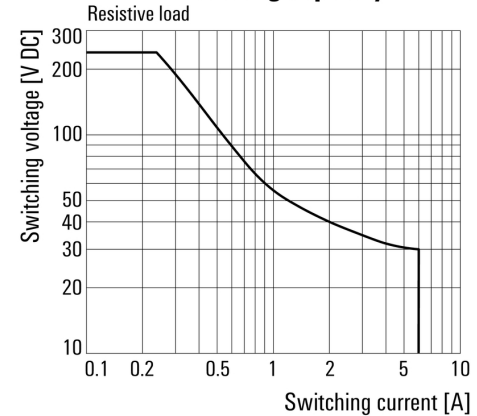
Drawings

Wiring diagram



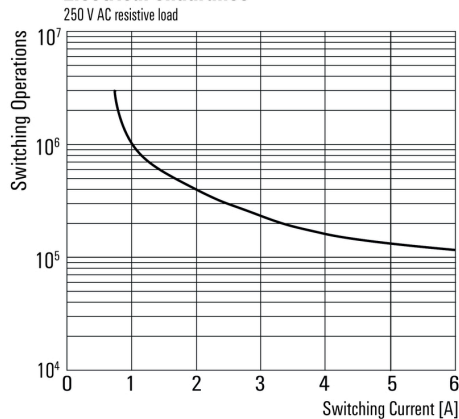
Graph

DC load breaking capacity

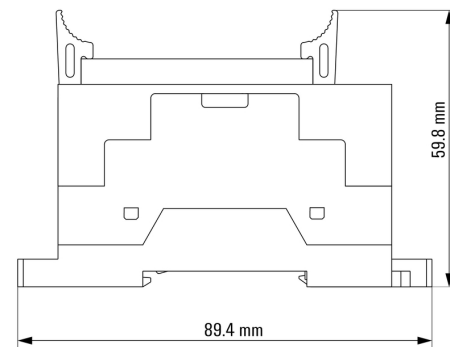


Graph

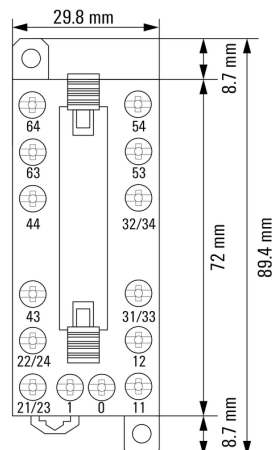
Electrical endurance



Dimensional drawing



Dimensional drawing



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Accessories**ESG 6/15****Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

Type	ESG 6/15 MM WS	Version
Order No.	2619940000	ESG, Device markers, 6 x 15 mm, white
GTIN (EAN)	4050118626148	
Qty.	3,000 pc(s).	

Crosshead screwdriver Phillips

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

General ordering data

Type	SDK PH1 X 80	Version
Order No.	2749410000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A):
GTIN (EAN)	4050118895636	
Qty.	1 pc(s).	

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Accessories**Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6/15 K MC NE WS	Version
Order No.	1880100000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	
Type	ESG 6/15 K MC NE GE	Version
Order No.	1880130000	ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive
GTIN (EAN)	4032248478910	
Qty.	200 pc(s).	

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General ordering data

Type	ESG 6/17 K MC NE WS	Version
Order No.	1880120000	ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478804	
Qty.	200 pc(s).	
Type	ESG 6/17 K MC NE GE	Version
Order No.	1880110000	ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive
GTIN (EAN)	4032248478798	
Qty.	200 pc(s).	

ESG 6/17

**Guaranteed long service life: ESG**

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Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

Type	ESG 6/17 MM WS	Version
Order No.	2005100000	ESG, Device markers, 6 x 17 mm, white
GTIN (EAN)	4050118390728	
Qty.	3,000 pc(s).	

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Drawings

Diagram illustrating the configuration of a 24 VDC, 16 A, 2 NO + 2 NC relay with various options:

- FS** Functional Safety
- KIT** Kit with screw connections
- Nominal control voltage** 24 VDC
- Numbers of contacts and contact design**
 - 2NO2NC 2 NO + 2 NC
 - 3NO1NC 3 NO + 1 NC
 - 3NO3NC 3 NO + 3 NC
 - 4NO2NC 4 NO + 2 NC
 - 5NO1NC 5 NO + 1 NC
- AU** Gold plated contacts
- AGSNO** AgSnO contact material
- LD** LED status indicator for input side + Free-wheeling diode
- FG** Forcibly Guided contacts