

FSKIT 24VDC 4NO2NC FG LD AGSNO AU

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



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 2 NC and 4 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.	2759090000
Type	FSKIT 24VDC 4NO2NC FG LD AGSNO AU
GTIN (EAN)	4064675009337
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	≤ 20 ms	Switch-off delay	≤ 20 ms
Contact type	2 NC and 4 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	≤ 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
ETIM 10.0	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
ECLASS 15.0	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_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/
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ROHS	Conform
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UL File Number Search	UL Website
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Certificate no. (cULus)	E223474
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Downloads

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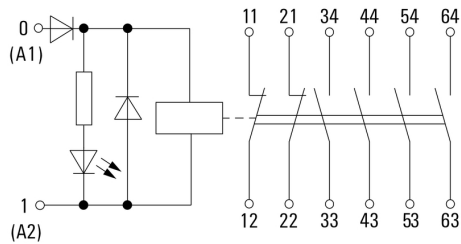
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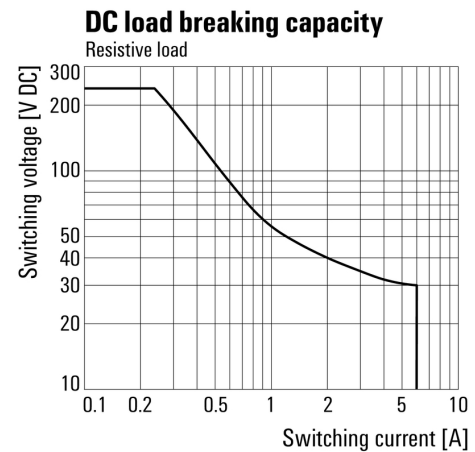
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Drawings

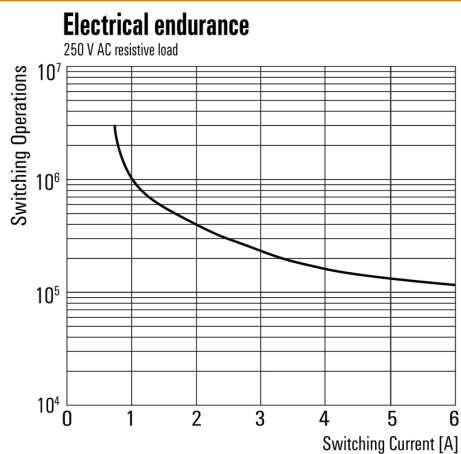
Wiring diagram



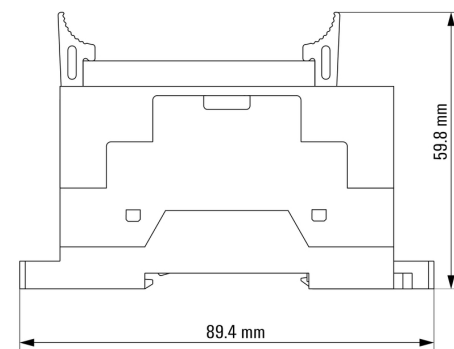
Graph



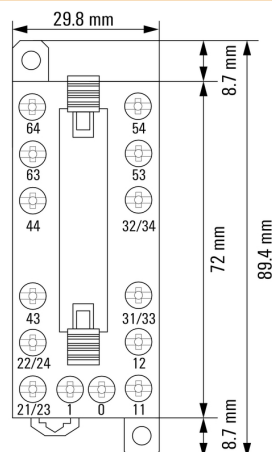
Graph



Dimensional drawing



Dimensional drawing



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Drawings

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