Dold UG6929 Series Safety Relay Extension Module



Additional contacts for emergency-stop modules and safety gate monitors.

- Safety contact multiplication
- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511 when connected to a suitable safety module

Outputs

5 NO positive

guided safety

contacts, 1 NC monitoring contacts 6 NO positive guided safety contacts,

2 NC monitoring

contacts and indicator 7 NO positive guided

safety contacts,

1 NC monitoring contact

Drawing

PDF

PDF

PDF

- EN 50156-1 for furnaces

Safety Relays Selection Chart

Marking Type

Safety relay

extension module

Safety relay

extension module

Safety relay

extension module

- Control with safety semiconductor outputs (light curtain, e-stop) possible
- Redundant and forcibly guided contacts

Voltage

24V AC/DC

24V AC/DC

24V AC/DC



- Output: up to 7 NO contacts, 1 NC contact for feedback circuit
- 2-channel
- LED Indicator
- Pluggable terminal blocks for easy exchange of devices



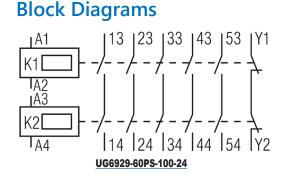
Safety Data – Values per EN ISO 13849-1		
Category	4	
Performance level	PLe	
MTTF _d	144.3 years	
DC _{avg}	99%	
Safety Data – Values per IEC/EN 62061 /IEC/EN 61508		
SIL CL	3	
SIL	3	
HFT (Hardware Failure Tolerance)	1	
DC _{avg} PFH _D	99%	
PEHD	3.59E ⁻¹⁰	

Part Number

UG6929-60PS-100-24

UG6929-61PS-100-24

UG6929-62PS-100-24

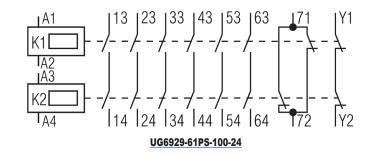


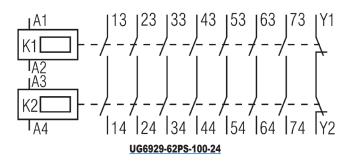
Price

\$145.00

\$167.00

\$167.00





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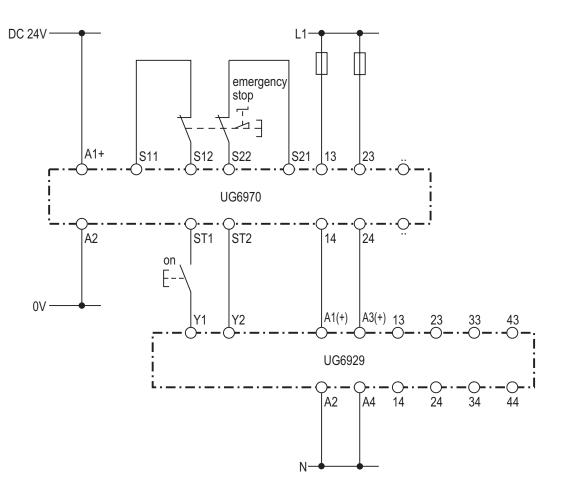
Dold UG6929 Series Safety Relay Extension Module Specification Table		
General Specifications		
Temperature	Storage: -25°C to 85°C (-13°F to 185°F) Operating: -15°C to 55°C (5°F to 131°F)	
Altitude	< 2,000 meters	
Vibration Resistance	Amplitude: 0.35mm Frequency: 10 to 55 Hz (IEC/EN 60068-2-6)	
Degree of Protection	Per IEC/EN 60 529. Housing: IP40; Terminals IP20	
Housing	UL 94V-0 thermoplastic DIN rail mount	
Weight	280g (9.88 oz)	
Terminal Designation per EN 50005 Wire Connections	1x AWG 24-12 solid or stranded 2x AWG 24-18 solid or stranded	
Wire Fixing	Plus-minus terminal screws M3.5 box terminals with wire protection.	
Wire Connection	60°C/75°C Copper conductors only AWG20-12 Sol/Str Torque 0.5 N•m	
Input Specifications		
Nominal Voltage	24V AC/DC	
Voltage Range	AC: 0.85 to 1.1 U_N At 10% residual ripple: 0.9 to 1.1 U_N; At 48% residual ripple: 0.85 to 1.1 U_N	
Maximum Consumption	24VAC/DC: 1.8VA	
Nominal Frequency	50 to 60 Hz	
Control Current	Control current typ. at 24V over 2 relays: 75 mA	
Overvoltage Protection	Internal VDR (Voltage Dependent Resistor)	
Output Specifications		
Electrical Contact Life	To AC15 at 5A, 230V: 2.2x10 ⁵ switching cycles IEC/EN 60947-5-1	
Mechanical Life	20 x 10 ⁶ switching cycles	
Operate/Release Time	Operate: typical at U _N 20ms Release: typical at U _N 35ms	
Nominal Output Voltage	250VAC	
Thermal Current (I _{th})	Max. 8A per contact. See quadratic total current limit curve in installation manual.	
Short Circuit Strength	Max fuse rating: 6A gl (IEC/EN 60 9470-5-1); Line circuit breaker: B6A	
Switching Capacity IEC/EN 60 947-5-1	AC 15: NO contacts: 3A/230V; NC contacts: 2A/230VAC DC 13: N.O. contacts: 4A/24V; NC contacts: 4A/24VDC; NO contact: 8A/24V >25x103 ON: 0.4s, OFF: 9.6s	
Switching Frequency	Max. 1,200 switching cycles/hr	
Agency Approvals and Standards	CSA, cULus file E107778, CE, TUV	

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



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Application Example

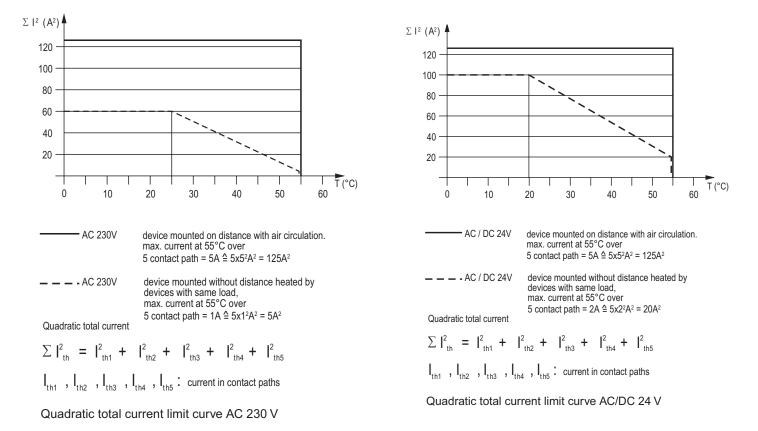


Contact extensions with UG6929/100; suited up to SIL3, Performance Level e, Cat. 4

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Characteristic Curves



Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.