## **Dold LG5929 Extension Module**







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

- 1-channel or 2-channel connection
- LED indication for operation
- Output: 5 N.O. and 1 N.C. contacts

Safety Data – Values per EN ISO 13849-1				
Category	4 according to EN 954-1			
Performance level	PLe according to EN 13849-1			
MTTF <sub>d</sub>	>100 years			
DC <sub>avg</sub>	99%			
Safety Data –				
Values per IEC/EN 62061 /IEC/EN 61508				
SIL CL	3 per IEC/EN 62061			
SIL	3 per IEC/EN 61508			
HFT (Hardware Failure Tolerance)	1			
DC <sub>avg</sub>	99%			
SFF	99.7%			
PFH <sub>D</sub>	4.68E <sup>-10</sup> h <sup>-1</sup>			

Safety Relays Selection Chart					
Part Number	Price	Marking Type	Voltage	Outputs	
LG5929-60-100-61	\$136.00	Safety relay extension module	24 VAC/VDC	5 N.O./1 N.C.	

Safety Relay Extenson 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 60-068-2-6)			
Degree of Protection	Per IEC/EN 60 529. Housing: IP40; Terminals IP20			
Housing	UL 94V-0 Thermoplastic; Din mount 35 mm x 7.5 mm			
Weight	205g (7.23 oz.)			
Agency Approvals and Standards	CSA, cULus file E107778, CE, RoHS, TUV			
Terminal Designation per EN 50 005 Wire Connections	1x4 mm² solid or 1 x 2.5 mm² stranded ferruled (isolated) or 2 x 1.5 mm² stranded ferruled (isolated) DIN 4 228-1/-2/-3/-4 or 2 x 2.5 mm² solid per DIN 46 228-1/-2/-3 /-4			
Wire Fixing	Plus-minus terminal screws M3.5 box terminals with wire protection or cage clamp terminals.			
Input Specifications				
Nominal Voltage	24V AC/DC			
Voltage Range	AC: 0.85 to 1.1 U $_{ m N}$ At 10% residual ripple: 0.9 to 1.1 U $_{ m N}$ ; At 48% residual ripple: 0.85 to 1.1 U $_{ m N}$			
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 2 A,230V: 10 <sup>5</sup> switching cycles IEC/EN 60 947-5-1			
Mechanical Life	20 x 10 <sup>6</sup> switching cycles			
Contact Type	5 N.O. positively driven and 1 N.C. relay contacts (N.O. contacts are safety contacts)			
Operate/Release Time	Operate typ at U <sub>N</sub> : 20 m.; Release typ at U <sub>N</sub> : 35 ms.			
Nominal Output Voltage	250VAC			
Thermal Current (Ith)	Max. 5A per contact. See continuous current limit curve in installation manual.			
Short Circuit Strength	Max fuse rating:10A gl (IEC/EN 60 9470-5-1); Line circuit breaker: B6A			
Switching Capacity IEC/EN 60 947-5-1	AC 15: N.O. contacts: 3A/230V; N.C. contacts: 2A/230VAC DC 13: N.O. contacts: 4A/24V; N.C. contacts: 4A/24VDC; N.O. contact: 8A/24V >25x10 <sup>3</sup> ON: 0.4s, OFF: 9.6s			
Switching Frequency	Max. 1,200 switching cycles/hr			

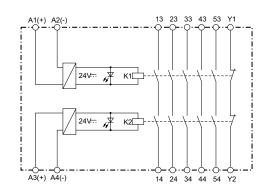
## **Dold LG5929 Extension Module**

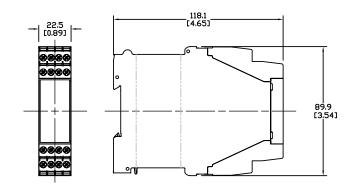


### Wiring

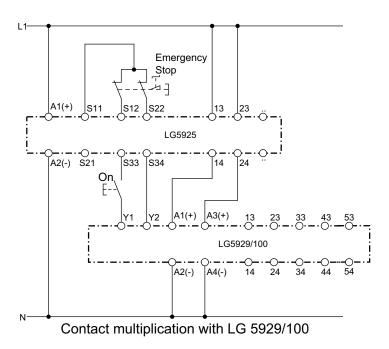
### Dimensions mm [in]

#### LG5929 Block Diagram





#### **Applications**



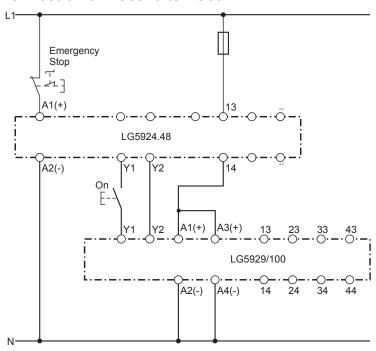
Note: This is a representative drawing. Depending on the LG5925 safety relay you select, different voltage sources may be required.

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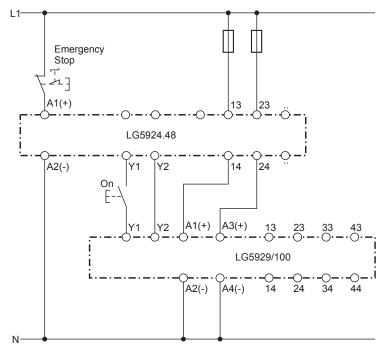


### **Applications**

#### Connection of LG5929 to LG5924



#### Single channel connection



Double channel connection

## **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.

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