Guardmaster® Guard Locking with Proximity Sensors Safety Relay (GLP)



Standstill or Slow-Speed Monitoring

Rockwell Automation has expanded its family of Allen-Bradley® Guardmaster® GSR safety relays with the new GLP module. Developed specifically for guard locking applications, the GLP helps OEMs reduce design and installation time for standstill or slow-speed guard locking applications. It uses two proximity sensors as inputs to monitor motion and unlock a gate when equipment reaches a safe speed.

Designed to meet international safety standards, such as EN ISO 13849-1 and EN 62061, the entire GSR relay line – including the GLP – features a patented, single-wire communication capability that helps eliminate the need for dual-channel connection between relays. Users can expand and cascade safety functions up to a safety integrity level (SIL) 3 rating using a single wire to connect between relays thus reducing installation time.



Features and Benefits

- PLd and CAT3 per ISO13849-1, SIL CL2 per IEC 61508
- For standstill or slow-speed monitoring and guard locking
- 2 PNP proximity sensor inputs with 2 additional inputs for lock request and door monitoring
- Versatility through simple logic, reset and speed monitoring configurations
- Single-wire safety relay connection allows for ease of installation and system flexibility
- Terminals are grouped together for power, inputs and outputs for clear connection
- A global safeguarding solution that meets all applicable directives and is third-party tested and approved by UL and TÜV



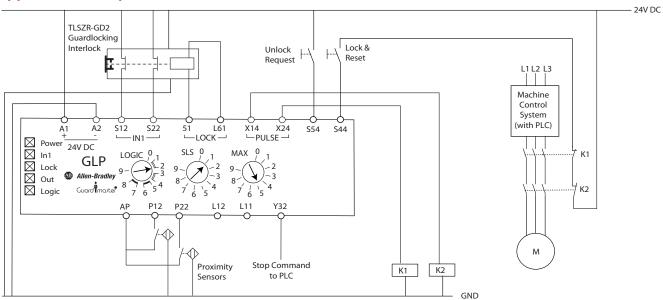




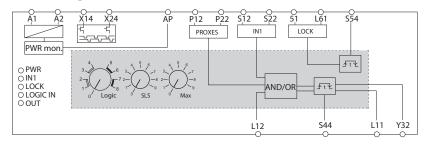
Product Selection

Relay Type	No. of Sensor Inputs	Additional Inputs	Immediate Safety Outputs	Delayed Safety Outputs	Time Delay	Immediate Auxiliary Outputs	Power Supply	Cat. No.
Guard locking Proximity (GLP)	1 dual-channel 2 PNP Proxes	2 N.C., OSSD	1 single-wire safety	_	_	1 solid state	24V DC	440R-GL2S2P

Application Example



Block Diagram



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Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444 Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640 Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846