

OMRON solution GUIDE

Package Machinery Guard Monitoring

Preventing accidents,
maintaining equipment
integrity, and optimizing
efficiency



Key Features:

- 45mm-wide housing, expansion units are 17.5mm wide
- Safe OFF-delay timer
- Simple expansion connection
- Certification up to PLe according to EN ISO 13849-1 depending on the application

Challenges:

- Packaging machines are complex and integrating guard monitoring systems that safeguard the machine without hindering the machines operation can be challenging
- Guard monitoring systems rely on sensors and switches that can malfunction or become misaligned, leading to false positives or negatives in safety monitoring
- Packaging machinery operates at high speeds, making it essential for safety systems to respond swiftly to protect breaches and prevent accidents

Why the OMRON Solution:

- The G9SA relay offers flexibility in wiring connections, simplifying integration with various safety switches and sensors, even in complex machinery setups.
- Using a feedback loop, the G9SA relay provides updates on the status of connected safety devices, enabling prompt identification of issues such as guard misalignment or sensor failure.
- The G9SA relay offers fast response times (max of 10 ms), delivering swift machine shutdown in response to any breach detected

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Part Number	Descriptions
G9SA-301	Emergency stop unit, 3PST-NO, SPST-NC aux contact, 1 or 2 channels
G9SA-501	Emergency stop unit, 5PST-NO, SPST-NC aux contact, 1 or 2 channels
G9SA-321-T075	Emergency stop Off-delay unit, 3PST-NO, DPST-NO Off-delay contacts, SPST-NC aux contact, 1 or 2 channels, 7.5 to 30 seconds Off-delay time