



ReLy

Rely on safety relays from SICK

SAFETY RELAYS

SICK
Sensor Intelligence.



Technical data overview

Applications	Evaluation unit / output expansion module for OSSDs / evaluation unit for stop category 1 applications (depending on type)
Safety integrity level	SIL3 (IEC 61508) SILCL3 (IEC 62061)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
Sensor monitoring	Discrepancy monitoring Cross-circuit detection Sequence monitoring (depending on type)
Typical response time	10 ms 12 ms (depending on type)
Configuration method	Hard wired / hard wired / DIP switch (depending on type)
Housing width	18 mm / 28 mm (depending on type)

Product description

The safety relays from the ReLy product family monitor safety functions and safety sensors up to performance level e. The ReLy portfolio is clear and concise. Each ReLy module has everything a modern safety relay needs: Up to 4 contact paths for the safe switch-off of machines, quick response times for short safety distances, plug-in terminals for short maintenance times, a slim housing for more space in the control cabinet and extensive diagnosis options for quick and easy troubleshooting. The sensor type to be connected alone can determine which product is the right choice.

At a glance

- Safety relays for monitoring ESPE and safety switches
- Up to PL e (EN ISO 13849), SIL3 (IEC 61508)
- Up to 4 safety outputs and short response times
- Slim, user-friendly housing
- Plug-in terminals
- Diagnostics via status LEDs and application diagnostic outputs

Your benefits

- Short safety distances owing to fast response times for compact machines and a high level of productivity
- Easy commissioning and quick module exchange thanks to plug-in terminals and one-click mounting rail release
- More space available in the control cabinet thanks to the slim housing
- Intuitive troubleshooting due to a wide range of diagnostics interfaces
- Easy wiring and installation – only one connection diagram required per module

Fields of application

- For intelligent safety sensors and safety laser scanners
- For safety sensors without integrated restart interlock and external device monitoring
- Evaluation of electro-mechanical safety switches
- Evaluation of two-hand control units of type III C (EN 574)
- For applications which require stop category 1

Ordering information

Other models and accessories → www.sick.com/ReLy

- **Applications:** evaluation unit
- **Connection type:** Front connector with spring terminals
- **External device monitoring (EDM):** integrated
- **Housing width:** 18 mm

Compact sensor types	Restart interlock	Outputs	Type	Part no.
Safety sensors with OSSDs	✓	2 enabling current paths (safe), 2 application diagnostic outputs (not safe), 1 test pulse output (not safe)	RLY3-OSSD200	1085344
		3 enabling current paths (safe), 2 application diagnostic outputs (not safe), 1 test pulse output (not safe)	RLY3-OSSD300	1099969
Safety sensors with potential-free outputs	✓	2 enabling current paths (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe)	RLY3-EMSS100	1085345
		3 enabling current paths (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe)	RLY3-EMSS300	1099973
Two-hand controls Type III C, in accordance with EN 574	–	2 enabling current paths (safe), 1 application diagnostic output (not safe)	RLY3-HAND100	1085346

- **Applications:** output expansion module for OSSDs
- **Compact sensor types:** safety sensors with OSSDs
- **Connection type:** Front connector with spring terminals
- **External device monitoring (EDM):** Via path

Outputs	Housing width	Type	Part no.
2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe)	18 mm	RLY3-OSSD100	1085343
4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe)	28 mm	RLY3-OSSD400	1099971

- **Applications:** evaluation unit for stop category 1 applications
- **Compact sensor types:** safety sensors with OSSDs, safety sensors with potential-free outputs
- **Connection type:** Front connector with spring terminals

Restart interlock	External device monitoring (EDM)	Outputs	Housing width	Type	Part no.
✓	Integrated	2 enabling current paths (safe), 1 release-delayed enabling current path, for stop category 1 applications (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe)	18 mm	RLY3-TIME100	1100688

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com

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