

Cost-effective inclination switch

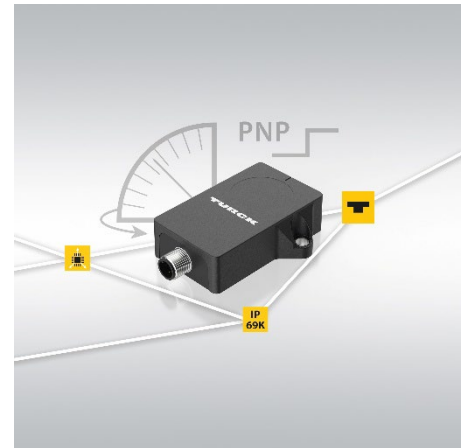
TURCK's QR20 sensor enables inclination detection for simple switching tasks

Mülheim, March 12, 2026 – The B1N180V-QR20 inclination switch expands TURCK's QR20 portfolio with a cost-effective solution for simple switching applications. The single-axis sensor uses MEMS acceleration measurement and offers a fixed switching window over 180 degrees. This allows it to replace mercury, liquid, and ball switches in many applications. The inclination switch combines robust mechanics, quick installation, and maintenance-free operation. Since no actuators or teach processes are required, the sensor can be put into operation quickly.

The B1N180V-QR20 has a PNP switching output that switches at 180 degrees along the sensor axis. The MAGKIT-QR20 magnetic mounting kit enables quick installation without drilling and makes it much easier to adjust the switching angle. Thanks to its maintenance-free measurement method and sealed housing, the sensor is also suitable for demanding environments or changing positioning conditions.

Typical areas of application for inclination switches include mobile machines, industrial plants, and infrastructure applications. These include mobile conveyor belts, roll-off tipplers, locks, weirs, and ventilation flaps. For more complex applications, the QR20 measuring inclination sensors with IO-Link, analog, or CANopen interfaces are available, as well as versions with parameterizable switching windows.

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Quick to install, quick to switch: Cost-efficient QR20 inclination switch from TURCK

FURTHER INFORMATION

<https://www.turck.com/de/en/spotlight/product-news/cost-effective-inclination-switch>

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