



IQB2S

Safe and easy position monitoring up to PL d

NON-CONTACT SAFETY SWITCHES

SICK
Sensor Intelligence.

Advantages



Can be used in tight spaces

Thanks to its compact design, the IQB2S can be integrated into nearly any machine and without additional mounting equipment. It does not need a special actuator for safe position and presence detection, just non-contact activation with metal, which considerably reduces mounting work. The rugged VISTAL™ housing, made completely of plastic, and enclosure rating IP67 ensure the highest level of process reliability.

Compact and ready to use right away



With its slim, compact format no bigger than a matchbox, the IQB2S can fit in any machine design.



Two holes, two screws: That's all you need to mount the IQB2S on the machine. It can be quickly aligned using the hole pattern provided on the safety switch.



Compact for any machine environment: The IQB2S non-contact safety switch

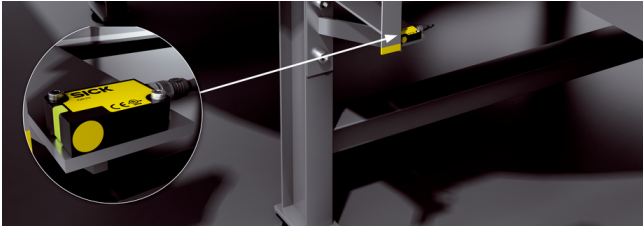


Amazing function

The IQB2S stands for reliable detection of metallic machine parts. Due to its non-contact operating principle, it is extremely low-wear and low-maintenance. As it does not have a blind zone and thanks to the precise switching point, it also allows

for quick adjustment. Thanks to the two OSSD outputs with test pulses, the safety switch reliably detects short- and cross-circuits, therefore achieving a high level of safety up to performance level d.

High tolerance for high productivity



As it does not have a blind zone and is very resistance to shocks and vibration, the IQB2S offers a high level of machine availability.



The IQB2S exhibits high tolerance to deviation. And, just like the IME2S inductive safety switch, it features non-contact operation and has a very low wear rate.



The IQB2S inductive safety switch features quick adjustment thanks to the precise switching point.



Technical data overview

Sensor principle	Inductive
Safety integrity level	SIL2 (IEC 61508) SILCL2 (EN 62061)
Category	Category 2 (ISO 13849-1)
Performance level	PL d (ISO 13849-1)
Actuator coding level	Uncoded (EN ISO 14119)
Type of output	Self-monitoring semiconductor outputs (OSSDs)
Number of safe outputs	2
Connection type	Cable with M12 male connector, 4-pin / male connector M8, 4-pin / Cable, 4-wire (depending on type)

Product description

The inductive safety switches of the IQB2S product family are used for safe position and area monitoring. Thanks to the very compact design and wide range of connection variants, they offer optimum integration into the machine design. The IQB2S switches work without making contact and are low-wear. The inductive safety switches do not require a separate actuator to do their monitoring tasks. On the contrary, they are generally activated by metals, for example on machines. The IQB2S can be connected to a safe control solution via its self-monitoring switching outputs (OSSDs), allowing for high safety with PL d (EN ISO 13849).

At a glance

- Rectangular type: 12 mm x 26 mm x 40 mm
- Response range: 4 mm
- Two OSSD safety outputs
- Enclosure rating: IP67
- Temperature range: -25 °C bis +70 °C
- Rugged VISTAL[®] housing
- Up to performance level PL d (EN ISO 13849)
- Connection variants: M8 male connector, cable or cable with M12 male connector

Your benefits

- Compact design for easy and ergonomic integration into the machine design without separate actuator
- High machine availability thanks to low susceptibility to dirt and moisture
- Long product service life due to low-wear and low-maintenance workings
- Fast diagnostics via 270° LED output state display
- High reliability and precise switching behavior due to proven ASIC technology
- Safe, direct connection to a safe control solution by means of OSSDs
- Easy and flexible connection options thanks to variants with male connector, cable or cable with male connector

Fields of application

- Safe position monitoring
- Safe area monitoring
- Safe presence monitoring

Ordering information

Other models and accessories → www.sick.com/IQB2S

- **Design:** rectangular
- **Dimensions:** 12 mm x 40 mm x 26 mm
- **Sensing range S_n :** 4 mm
- **Installation type:** flush

Connection type Detail	Type	Part no.
Cable with M12 male connector, 4-pin	IQB2S12-04B4DQ9	1091956
Cable, 4-wire	IQB2S12-04B4DW2	1091955
Male connector M8, 4-pin	IQB2S12-04B4DT0	1091954

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