



W24-2 Ex

Detection and safe switching in explosion-hazardous areas (gas and dust)

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	27 mm x 87.5 mm x 65 mm 38 mm x 154.5 mm x 77 mm
Light source	LED
Type of light	Infrared light / visible red light (depending on type)
Enclosure rating	IP67
Housing material	Metal
Adjustment	Potentiometer



Product description

The W24-2Ex features a rugged metal housing which ensures reliability in harsh industrial conditions. Special electronics allows longer sensing range despite the limited factors of the norms for Category 2G (ATEX, explosive environments). The necessary switching amplifiers are also available.

At a glance

- Label: Ex II 2 G Ex ia op is IIC T4 in accordance with directive 2014/34 / EU (ATEX)
- Complies with category 2 G
- Switching output: EN 60947-5-6 (NAMUR)
- M12 male connector or M16 screw connection: Can be rotated by 90°
- Rugged housing made of zinc die cast
- Precise background suppression

Your benefits

- Metal housing for very high stability and a long service life
- Large sensing distances and ranges despite the limiting factors in the standards for device categories 2G and 3G / 3D
- Flexibility at the installation site thanks to rotating connection concept

Ordering information

Other models and accessories → www.sick.com/W24-2_Ex

- **Sensing range max.:** 40 mm ... 2,000 mm
- **Info:** Ex II 2G Ex ia op is IIC T4 Gb according to directive 2014/34/EU PTB 03 ATEX 2105 In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Functional principle:** Photoelectric proximity sensor
- **Switching mode:** Light switching
- **Functional principle detail:** Background suppression
- **Light source:** LED
- **Switching output:** NAMUR
- **Type of light:** Infrared light
- **Adjustment:** Potentiometer

Connection type	Type	Part no.
Male connector M12, 4-pin	WT24-2X400	1040722
Terminal connection with M16 gland	WT24-2X200	1041910
	WT24-2X260	1025684

- **Sensing range max.:** 0 m ... 22 m
- **Info:** Ex II 2G Ex ia op is IIC T4 Gb according to directive 2014/34/EU PTB 08 ATEX 2029 In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Functional principle:** Photoelectric retro-reflective sensor
- **Switching mode:** Light switching
- **Light source:** LED
- **Switching output:** NAMUR
- **Type of light:** visible red light
- **Adjustment:** Potentiometer

Connection type	Type	Part no.
Male connector M12, 4-pin	WL24-2X430	1026037
Terminal connection with M16 gland	WL24-2X230	1026036

- **Sensing range max.:** 0 m ... 22 m
- **Info:** Ex II 3G Ex nA op is IIB T4 Gc X
Ex II 3D Ex tc IIIB T135 °C Dc X
In accordance with directive 2014/34 / EU In the framework of directive 2014/34 / EU (ATEX) and DIN EN ISO/IEC 80079-34, we would like to point out that the traceability of the ordered device to your customer is your responsibility (documentation of your customer and associated product data, such as part number, datcode, serial number)
- **Functional principle:** Photoelectric retro-reflective sensor
- **Switching mode:** Light/dark switching, Light/dark switching

Light source	Switching output	Type of light	Connection type	Adjustment	Type	Part no.
LED	NPN, PNP	Visible red light	Male connector M12, 5-pin	Potentiometer	WL24-2V530S06	1027613

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