



W18-3 Ex

W18-3 Ex – maximum performance in explosive zones

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	23.6 mm x 117 mm x 49.3 mm
Light source	LED
Type of light	Infrared light
Enclosure rating	IP67
Housing material	Plastic
Adjustment	Potentiometer

Product description

The W18-3 Ex series of photoelectric sensors provides reliable object detection in explosive environments. These sensors meet Category 3G/3D requirements for temperature, performance, UV resistance and mechanical stability. Both photoelectric proximity and retro-reflective sensors are available.

At a glance

- Best-in-class optical performance due to superior OES technology
- Autocollimation optics
- Background suppression with second sender LED
- Sensors meet requirements of Category 3G/3D

Your benefits

- Reliable detection due to best-in-class background suppression and ambient light immunity
- Reliable usage in potentially explosive atmospheres
- High availability in the field
- Quick and easy installation using SICK accessories saves time

Ordering information

Other models and accessories → www.sick.com/W18-3_Ex

- **Sensing range max.:** 10 mm ... 1,000 mm
- **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
- **Functional principle:** Photoelectric proximity sensor
- **Switching mode:** Light/dark switching
- **Functional principle detail:** Background suppression
- **Light source:** LED

Switching output	Type of light	Connection type	Adjustment	Type	Part no.
PNP	Infrared light	Cable with M12 male connector, 4-pin	Potentiometer	WT18X-3P920S14	1029584

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