

WEIGHT SENSOR - BAR TYPE

XZ range

The Nexmosphere XZ range presents a diverse selection of sensors that detect the status and characteristics of the objects to which they are applied. This allows for the logging and seamless communication of these acquired values and for the system to actively respond to predefined critical threshold values. With this, the XZ range provides a robust solution for object analysis and programming responsive actions, enhancing its utility across a spectrum of applications.



Weight sensor - bar type

The bar-type weight sensor is designed for easy installation in product displays across various retail environments. With high accuracy, this sensor detects shelf weight, promptly triggering API messages when a product is lifted or placed back. In scenarios where multiple distinct products populate the shelf, the sensor distinguishes the lifted product by analyzing detected weight differences, even in cases of subtle variations between items.

Features

- Pick-up detection through weight difference
- Weight measurement
- Anomaly detection

X-talk

The XZ Weight sensor can easily be connected to any of the Nexmosphere Xperience controllers using the X-talk interface. All settings of the XZ sensor are programmable on the controller, enabling seamless integration in your application.

- Plug and smile interface
- Compatible with any Nexmosphere Xperience controller
- Powered by and configurable with Nexmosphere Xperience controller

Pick-up detection through weight difference

The sensor is designed to have a shelf installed on top of the front end of the sensor, on which items can be placed. When an item is lifted, the sensor will recognize what item was picked up based on the detected weight difference. The sensor can recognize the lift and placement of 16 individual items based on their unique weight, even in the case of subtle differences. The sensor can therefore be applied to create a Lift & Learn application for any type of object, as long as the items have a slight difference in weight.

- Store up to 16 unique items in the memory of the sensor
- Adjustable weight measurement settings
- Responsive triggers upon pick-up and placement

Weight measurement

The sensor can be set to output the detected weight difference in 0.1 grams when a weight delta is detected, for example when an item is lifted.

Next to this, the sensor can also be applied as a regular weighing scale, providing the absolute weight in 0.1 grams when an object is placed or lifted from the shelf mounted on the sensor.

- Accurate weight measurement
- Adjustable weight measurement settings

Anomaly detection

In pick-up detection mode, the sensor will detect when an object is placed on the sensor that is not part of your application.

- Anomaly API message upon detection
- Anomaly does not interfere with normal sensor operation

Benefits

- Easy installation with M5 bolts
- Smart sensor casing facilitates multiple installation options
- Unique cable connection (bottom feed or side feed) enables easy cable installation
- Calibration features guarantee accurate weight measurements

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Mounting specifications

The XZ weight sensor has 2 ends. The larger end is to be attached to a firm structural part of your fixture. The platform on which the items are placed is to be attached to the smaller end of the sensor. Installation is done with M5 bolts. The weight sensor will only work stable when installed firmly. Please see the product manual for elaborate mounting specifications and options.

Thermal specifications

Operating temperature: +10°C...+40°C/ +50°F ... +104°F
 Storage temperature: -20°C...+50°C/ -4°F ... +122°F

Electrical specifications

- Operating voltage: 5V DC (via X-talk interface)
- Power consumption: 100mA

Weight measurement specifications

	XZ-W11	XZ-W21	XZ-W51
Maximum weight	10KG	20KG	50KG
Minimum weight	5g	5g	5g
Accuracy	0.5-2g	1-3g	2-4g

Miscellaneous

- Custom cable lengths available on request
- 2-year warranty (optional 3-year extended warranty available)

Packaging

Items per carton 1, 10 or 50 pcs

Standards and Certifications



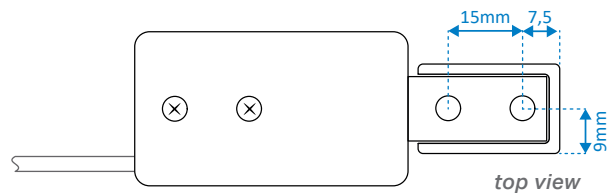
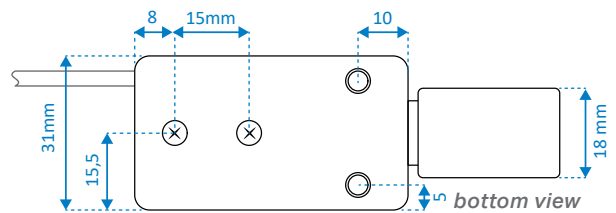
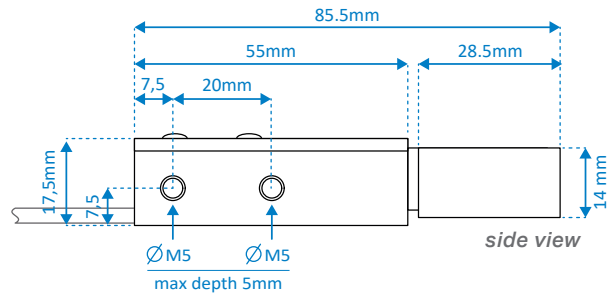
UL certification pending

Ordering information

Product ID	Description
XZ-W11	Weight sensor bar type 10KG, 180cm cable
XZ-W21	Weight sensor bar type 20KG, 180cm cable
XZ-W51	Weight sensor bar type 50KG, 180cm cable

Mechanical dimensions

LxWxH: 85.5 x 31 x 17.5 mm
 Fixation: M5 bolts (not included)



Mounting example

