

## **SIMATIC PXS240 –** Ultrasonic proximity switch in a miniature format



### **Advantages at a glance**

- Small and compact:  
20 x 31 x 12 mm (W x H x D)
- Ultrasonic: no effect on color  
or brightness of the object
- Optimal detection of transparent  
objects or fluids
- Simple adjustment with teach-in
- High degree of protection IP67
- Mounting compatibility to  
SIMATIC PXO400 optical proximity  
switches, K21 type of construction
- Insensitive to dirt, dust, chip-  
pings, fibers, mist and steam
- Can be used in small spaces

# simatic sensors



## **SIEMENS**

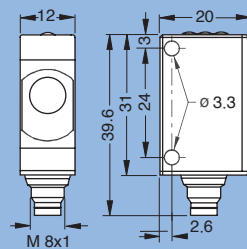
# SIMATIC PXS240 – Ultrasonic proximity switch in a miniature format

SIMATIC PXS240, the new series of small cubic proximity switches, combines the widespread design of optical proximity switches with robust ultrasonic object detection. The clever alternative to optical proximity switches wherever a high level of fail-safety or reliable detection is needed in difficult ambient conditions. The sensors are available in the compact K21 type of construction for mounting in small spaces, e.g. in automatic handling machines, parcel-sorting and conveying installations as well as plants in which printed circuit boards or bottles are moved about.

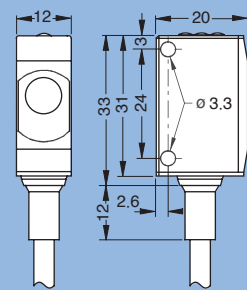


Overview of the most important technical data			
<b>Operating mode</b>	Diffuse sensor	Reflex sensor	Thru-beam sensor
<b>Detection range</b>	20 to 250 mm 25 to 400 mm	0 to 250 mm 0 to 400 mm	0 to 800 mm
<b>Output</b>	Switching output, frequency output	Switching output	Switching output
<b>Connection</b>	M8 plug, 2-m cable		
<b>Ambient temperature</b> – during operation – during storage	–25 °C to +70 °C –40 °C to +70 °C		

## Small and compact – Overview of dimensions



Connection: M8 plug



Connection: 2-m cable



## SIMATIC PXS240 –

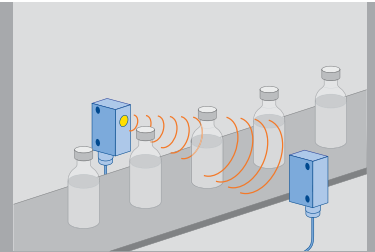
can be used universally for a wide variety of tasks

**Task:**

Detection of transparent objects

**Example of an application:**

Bottle filling in the beverages industry

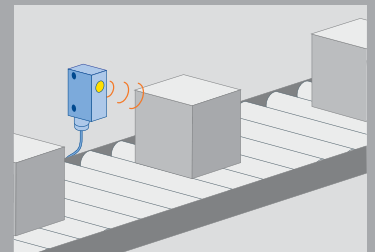


**Task:**

Position detection

**Example of an application:**

Conveying and transport systems

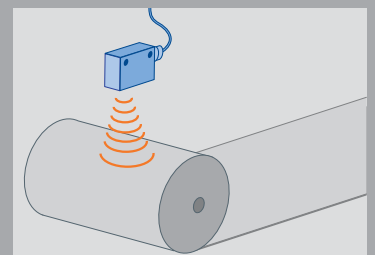


**Task:**

Diameter detection

**Example of an application:**

Winder

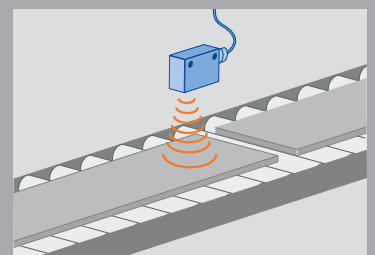


**Task:**

Detection of plastic film sections/panels

**Example of an application:**

Woodworking

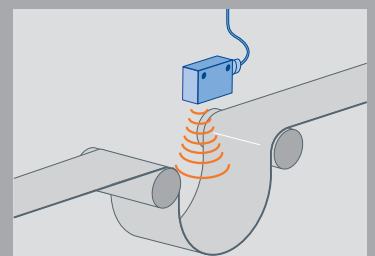


**Task:**

Detection of sagging of material being conveyed

**Example of an application:**

Stamping in special mechanical engineering

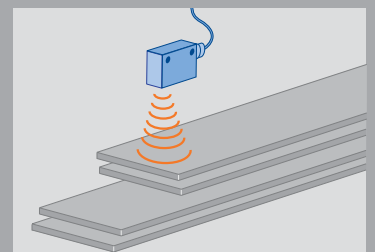


**Task:**

Stack height detection

**Example of an application:**

Palletizing



## SIMATIC PXS240 –

Simply choose the model you need!

Detection range	Function	Output	Connection	Order No.
25 to 400 mm	Diffuse sensor	NO NO NC NC	2-m cable M8 plug 2-m cable M8 plug	6GR6241-0AB00 6GR6241-7AB00 6GR6241-0AA00 6GR6241-7AA00
20 to 250 mm	Diffuse sensor	NO NO NC NC	2-m cable M8 plug 2-m cable M8 plug	6GR6242-0AB00 6GR6242-7AB00 6GR6242-0AA00 6GR6242-7AA00
0 to 400 mm	Reflex sensor	NO NO NC NC	2-m cable M8 plug 2-m cable M8 plug	6GR6241-0BB00 6GR6241-7BB00 6GR6241-0BA00 6GR6241-7BA00
0 to 250 mm	Reflex sensor	NO NO NC NC	2-m cable M8 plug 2-m cable M8 plug	6GR6242-0BB00 6GR6242-7BB00 6GR6242-0BA00 6GR6242-7BA00
0 to 800 mm	Thru-beam sensor emitter		2-m cable M8 plug	6GR6241-0NN00 6GR6241-7NN00
0 to 800 mm	Thru-beam sensor receiver	NO NO NC NC	2-m cable M8 plug 2-m cable M8 plug	6GR6241-0PB00 6GR6241-7PB00 6GR6241-0PA00 6GR6241-7PA00
25 to 400 mm	Frequency output (25 to 400 Hz/50 to 800 Hz)		2-m cable M8 connector	6GR6241-0RS00 6GR6241-7RS00
20 to 250 mm	Frequency output (20 to 250 Hz/40 to 500 Hz)		2-m cable M8 connector	6GR6242-0RS00 6GR6242-7RS00

### Alle Sinne geschärft: Näherungsschalter SIMATIC PX

Automation solutions become increasingly more comprehensive and sequences of movement more complex. It is therefore all the more important to have complete control of all processes.

If you want to keep an eye on things, it is a good idea to make the best possible use of all the senses at your disposal. Our proximity switches offer you the best way of doing this when it comes to detecting, counting, measuring or positioning. Whatever the application and whatever the branch of industry, our complete range of inductive, optical, capacitive and ultrasonic proximity switches see everything.

[www.siemens.com/simatic-sensors/px](http://www.siemens.com/simatic-sensors/px)

### Any questions? We're here to help.

Like to learn more about our products?  
Or would you like to speak to us?  
We'll be pleased to advise you.

You can find your local Siemens contact on the Internet at:

[www.siemens.com/automation/partner](http://www.siemens.com/automation/partner)



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