

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

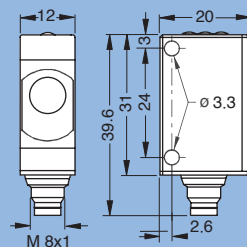
SIMATIC PXS240 – Ultrasonic proximity switch in a miniature format

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.

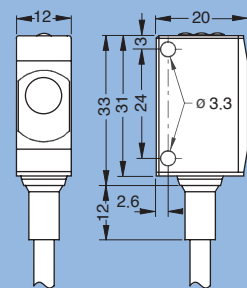


Overview of the most important technical data			
Operating mode	Diffuse sensor	Reflex sensor	Thru-beam sensor
Detection range	20 to 250 mm 25 to 400 mm	0 to 250 mm 0 to 400 mm	0 to 800 mm
Output	Switching output, frequency output	Switching output	Switching output
Connection	M8 plug, 2-m cable		
Ambient temperature – 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 –

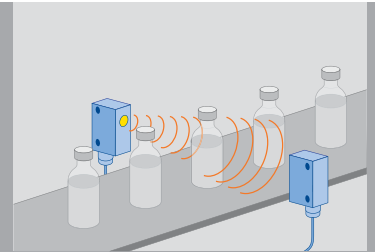
can be used universally for a wide variety of tasks

Task:

Detection of transparent objects

Example of an application:

Bottle filling in the beverages industry

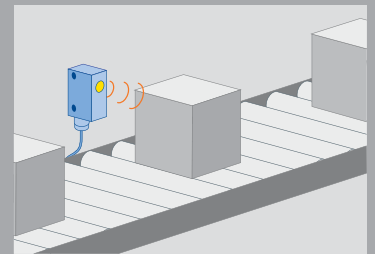


Task:

Position detection

Example of an application:

Conveying and transport systems

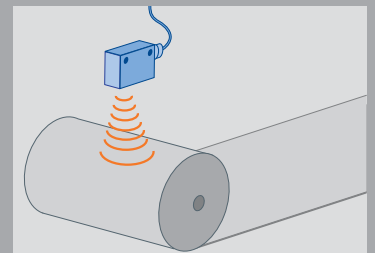


Task:

Diameter detection

Example of an application:

Winder

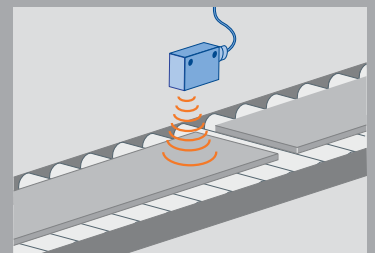


Task:

Detection of plastic film sections/panels

Example of an application:

Woodworking

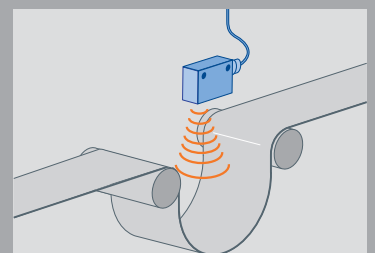


Task:

Detection of sagging of material being conveyed

Example of an application:

Stamping in special mechanical engineering

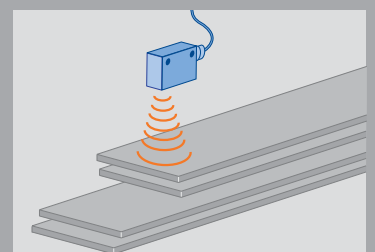


Task:

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

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



Siemens AG

Automation and Drives
Sensors & Communication
P.O. Box 48 48

90327 NUREMBERG, GERMANY

www.siemens.com/simatic-sensors

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.