

# Contour2D system

## MSS-Contour2D-KIT001



- For detection of the utilization of conveyor belts
- Preinstalled software
- Configurable sensing range
- Quick and easy replacement of system parts possible
- Shadow effect compensation
- Communication via EtherNet/IP

System for detecting the occupancy rate of conveyor belts

### Function

The Contour2D system detects the occupancy of a passing conveyor belt from a fixed position with a 2D LiDAR scanner.

The Contour2D system

- determines the occupied part of a conveyor belt.
- determines the average and maximum height of the transported goods.
- ignores objects outside the configurable sensing range.

You can easily set up the system with the included Windows® application.

### Technical Data

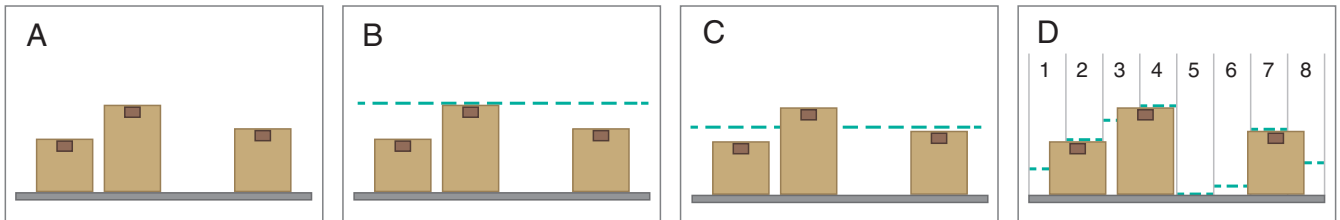
#### General specifications

Motion velocity	Max. 1.2 m/s
Sensing range	
Read distance	1000 ... 4000 mm distance to conveyor belt
Width	Conveyor belt: max. 4000 mm

#### Software

Function	Sampling rate: 100 ... 1000 ms per scan Communication: Ethernet, TCP/IP socket
Operating system	Linux Debian 10

### Application



The pre-installed Windows® application allows an easy configuration of the system.

The following information is provided by the application:

- **A** Utilization in percent  
Occupancy in millimeters
- **B** Maximum height
- **C** Average height
- **D** Average height of 8 or 16 zones

The following configurations are supported by the application:

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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- Sampling rate
- Sensing range

The system communicates via Ethernet using a TCP/IP connection.

## Matching System Components

	<b>MSEU-F600-Contour2D</b>	Part of the Contour2D Smart System
	<b>OMD30M-R2000-B23-V1V1D-HD-1L</b>	R2000 HD, 2-D LiDAR sensor for precise measurement tasks and positioning, measuring range to object up to 30 m, Ethernet
	<b>V1-G-*M-PVC-V1-G</b>	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	<b>V1SD-G-GN*M-PUR-E1S-V1D-G</b>	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, drag chain suitable

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