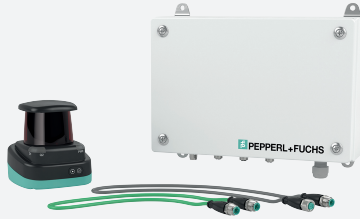


Contour detection system

Contour2D

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

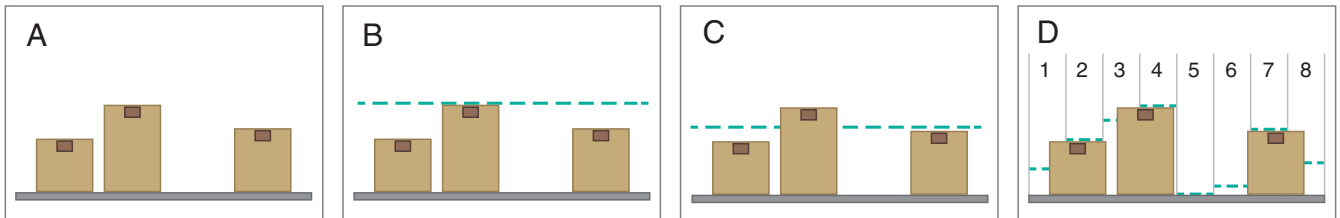
General specifications

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:

- Sampling rate
- Sensing range





















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

Kit component





















	MSEU-F600-Contour2D	Part of the Contour2D Smart System
	OMD30M-R2000-B23-V1V1D-HD-1L	R2000 HD, 2-D LiDAR sensor for precise measurement tasks and positioning, measuring range to object up to 30 m, Ethernet
	V1-G-2M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-5M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-10M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-20M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-0,3M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-15M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-3M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-7,5M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-1,5M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-0,2M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-0,4M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-0,5M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-1,2M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-2,5M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-1M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-6M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1-G-0,6M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey

Release date: 2023-08-24 Date of issue: 2023-08-24 Filename: faa-1019_eng.pdf

Kit component

	V1-G-*M-PVC-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	V1SD-G-GN3M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN1M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN7M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN10M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN15M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN*M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN20M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN30M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN50M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN80M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN100M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN0,6M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN0,8M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN1,6M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN6,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN7,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN8M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN8,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN9M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable

Kit component

	V1SD-G-GN9,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN1,35M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN1,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN2,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN3,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN4M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN4,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN5,5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN6M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN0,7M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN25M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN35M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN40M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN45M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN55M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN60M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN65M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN70M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN2M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V1SD-G-GN5M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable