

# TECKENTRUP „3D easyscan“

The 3in1 system for industrial doors



3 functions -  
1 device

One for all door opening situations: the Teckentrup „3D easyscan“ door sensor is a laser-based sensor that is built on the principle of time-of-flight measurement. It is an opening, presence and safety sensor for industrial doors. Seven laser curtains create a three-dimensional coverage area in front of the door. This enables effective opening and facilitates monitoring and protection of the door, vehicles and people.

The door sensor is a convenient solution to optimise traffic flow and energy consumption regardless of weather and location. In addition, it also increases door protection and user comfort.



#### Door protection

The Teckentrup 3D easyscan becomes the „doorkeeper“ and protects your investments. It detects precisely when vehicles approach or park and prevents any contact with the door.



#### 3D coverage

Due to precise distance measurement thanks to laser technology the sensor generates a three-dimensional detection field, which allows it to calculate the exact dimensions of an object, direction and its speed.



#### Energy saving

Object profiling allows parallel traffic to be blanked out, filter pedestrians and optionally adjust the height of the door opening, so that the door only opens when necessary, thus saving energy. Additionally, the virtual pull switch can be used to trigger a selective opening.



#### Independent of ground and environment

The laser technology of the Teckentrup 3D easyscan offers great independence from sources of interference and weather conditions such as rain, snow, fog, ...



## Installation

- 2 visible spots on the floor facilitate the alignment of the detection fields
- Intuitive sensor configuration via app
- Detection fields can be flexibly adapted to any environment

## Product features

- Analysis of the direction, size and speed of objects
- Independent of material, colour and reflectivity of the object
- Ideal alternative to replace induction loops

Technical Data	
Technology	Laser scanner, time-of-flight measurement
Max. Detection field	Width: 1x installation height; Depth: 1x installation height (adjustable and depending on user settings)
Installation height (type)	2 m to 6 m
Transmitter features	
Infrared laser	Wave length 905 nm; max. output pulse power 25 W; Class 1
Red visible laser	Wave length 650 nm; max. continuous output power 3 mW; Class 3R
Power supply	12 V - 24 V AC +/- 10% ; 12 V - 30 V DC +/- 10% at sensor connection
Power consumption	Heater off: 2.5 W; Heater auto: typ. < 10 W, max. 15 W
Response time	Typ. 80 ms; max. 800 ms
Outputs	2 solid-state relays (galvanically isolated output - polarity-free) 30 V AC Max. Switching voltage - 100 mA (max. switching current) -Switching mode: NO/NC -Frequency mode: pulsating signal (f= 100Hz +/- 10%) 1 electro-mechanical relay (galvanically isolated output - polarity-free) 42 V AC Max. Switching voltage - 500 mA (max. switching current)
Test input	30 V DC (max. switching voltage) - low < 1 V, high > 10 V (voltage threshold)
Dimensions	200 mm (H) x 150 mm (W) x 100 mm (D) (approx.)
Enclosure material / colour	Black Protection class IP65
Protection class	IP65
Temperature range	-30°C to +60°C
Vibrations	< 2 G
Conformity	EN 61000-6-2; EN 61000-6-3; EN 60950-1; EN 60825-1; EN 50581