

Advanced People Sensor

APS-R

013.928-057



MULTI-DIRECTIONAL PASSENGER COUNTING

- Precise passenger counting even in crowded conditions with an accuracy up to 99 %
- Can meet VDV-457 version 2.2 accuracy requirements
- Up to 10 individual counting lines are possible per device
- Capture separate figures for interior doors, left and right side or upper and lower deck, without the need of additional units
- Detection and exclusion of U-turns

OCCUPANCY MONITORING IN AN AREA

- Real-time passenger detection to determine the occupancy of individual areas for optimized capacity planning

OBJECT CLASSIFICATION

- Separate counting results for adults and children by default
- Additional option: Detection of bicycles and wheelchairs

VIDEO RECORDING FOR COUNT VERIFICATION

- Optional recording of color video files alongside caption of measurement results
- Option to pixelize video files depending on installation height
- Recording can be triggered via digital inputs (door contact)
- Additional privacy option: People are not recognizable on videos

REAL-TIME DATA

- Very short latency time of 50 ms
- Start-stop detection using the integrated accelerometer
- Suitable for solutions that require an instant event-triggered activity, e. g. the reopening of a door if a passenger approaches

EASY SETUP AND COMMISSIONING

- Automatic determination of mounting angles
- Automatic determination of the floor profile and ceiling height
- Intuitive and straight-forward setup of all other parameters via the web user interface
- Immediate full performance, no calibration required
- Easy demonstration to the end user using color videos with synchronized data records

ACCESSORIES

Generic mounting kits for surface mount, flush mount and variable tilt angles are available from stock

TECHNICAL DATA

Operating voltage	12 V DC to 36 V DC (nom.) Protected against short-circuit and inverse polarity
Power consumption	4 W
Operating temperature	EN 50155 class OT3 -25 °C to +70 °C (-13 °F to +158 °F)
Storage temperature	EN 50155 -40 °C to +85 °C (-40 °F to +185 °F)
Ingress protection	IP65
EMC	EN 50121-3-2:2016/A1:2019 EMV 06
Shock and vibration	EN 50125-1 IEC 61373 cat. 1, class B
Coverage	Ceiling height: 2.00 m to 4.00 m (6.6 ft to 13.1 ft) Coverable door width: 1.60 m to 5.60 m (5.2 ft to 18.4 ft) depends on installation height
Dimensions	141 mm x 98 mm x 35 mm (5.6 in x 3.9 in x 1.4 in)
Weight	440 g (15.5 oz)
Housing	Aluminum
Light sensitivity	3 Lux to 300,000 Lux High Dynamic Range (HDR)
Failure rate	2,000 FIT (= MTBF 500,000 h) in a typical railway environment
Type approvals	Railway conformity according to EN 50155 ECE Type approval for road vehicles CE Declaration of Conformity

INTERFACES

Ethernet	10/100 Mbit/s, full duplex
Communication protocols	TCP, UDP, FTP, HTTP, HTTPS, SOAP, VDV-300 (IBIS), VDV-301 (IBIS-IP), ITxPT, REST API, SSH
Inputs/outputs	1 programmable digital input, 1 programmable digital output
Door coding	4 coding jumpers to select 16 individual door configurations
Setup/service	Integrated web interface
Buffered real-time clock (RTC)	Backup time approx. 1 day

SETUP AND SERVICE

✓	Secured by multilevel user and rights management
✓	Customizable WebGUI (logo, colors)
✓	Automatic setup of floor profile and tilt angles
✓	GDPR - Data protection by design and default ensured
✓	High level of privacy with the privacy mode