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 457-2 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 as a standard feature
- 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: Individuals 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

TECHNICAL DATA

Operating voltage	12 V DC to 36 V DC (nom.) Protected against short-circuit and inverse polarity
Power consumption	5 W
Operating temperature	EN 50125-1 class T3 -25 °C to +70 °C (-13 °F to +158 °F)
Storage temperature	EN 50125-1 class T3 -40 °C to +85 °C (-40 °F to +185 °F)
Ingress protection	IP65
EMC	EN 50121-3-2:2016 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

ACCESSORIES

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

SETUP AND SERVICE

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