

ADVANCED PEOPLE SENSOR

APS-R



»» OUR PROVEN DESIGN IS NOW EVEN BETTER

BEST IN CLASS PASSENGER COUNTING

- Precise passenger counting even in crowded conditions with an accuracy up to 99 %
- Can meet VDV 457-2 accuracy requirements
- Smart and configurable counting logic to accurately capture every situation
- Depending on the vehicle, one sensor can even be used to simultaneously capture counting data for left and right access doors, as well as additional car or class crossings

CLASSIFICATION OF COUNTING OBJECTS

- Separate counting results for adults and children as well as bicycles and wheelchairs

OCCUPANCY MEASUREMENT

- Real-time measurement of occupancy in individual areas for optimized capacity planning

REAL-TIME DATA

- Measurement and control of event-triggered activities, e.g. reopening of a door when a passenger approaches

COUNT DATA VERIFICATION

- Optional recording of color VGA video files with captioning of the measurement results
- Recording only when the door is open makes the validation process easier
- Additional privacy option: people are not visible on the videos

EASY SETUP AND COMMISSIONING

- Automatic determination of installation parameters such as installation height and mounting angle
- Automatic determination of the floor profile even on stairs
- AI-based start-stop detection enables use without door contact
- Immediate full performance, no calibration required

COMMUNICATION WITH ANY APC SYSTEM

- Supports IoT and industry standard communication protocols

TECHNICAL DATA

»» Extended 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 50121-3-2:2015 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, SSH
Inputs/outputs	1 programmable digital inputs, 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