



IRD901/2 Range up to 35 m

Angular aperture 8° - 12°

IRD903/2 Range up to 60 m

Angular aperture 3° - 5°

Application range

- Request or extension of green phases of traffic light installations
- Vehicle and pedestrian detection

Features

- Fast response
- Insensitive towards environmental influence
- Suitable for outdoor use
- Easy installation and service
- Easy alignment

Description:

The IRD-series passive infrared motion detector is an optical detector, that responds to changes of an object's thermal radiation. Movement of pedestrians and vehicles is indicated by switching impulses on the relay output.

Maximum sensitivity and range are influenced by the object's speed and temperature. Large differences of temperature result in high sensitivities.

The universal mounting unit enables pole mounting by means of a tension band or wall mounting. After connecting the detector to the power supply and connecting the relay contacts, the detector has to be adjusted.

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|-------------------------------------|--|
| Power Supply: | 230 V AC (optional: 115 V AC, 42 V AC, 12 V AC, 42 V DC, 24 V DC, 12 V DC) Tolerance: +6 % / -10 % |
| Power Consumption: | approx. 2 W |
| Output: | potential free relay contact (change-over contact) max. 250 V DC, 230 V AC (50 Hz), (in acc. with VDE 0110) I_{max} 0.5 A, P_{max} 50 W DC / 100 VA AC ($\cos\varphi$ min.: 0.5) |
| Isolation group A: | 150 V DC, 125 V AC (50 Hz) |
| Spark suppressing: | The switching outputs are protected by spark suppressing units, consisting of an RC-element (10 Ω , 0,022 μ F). Connecting a high-impedance AC-load can therefore lead to a voltage drop on this load, in spite of an open switch (RC-element is then connected in series with the load). |
| Tuning: | automatic after approx. 30 sec. |
| Detection range: | IRD 901/2: 0.5 m - 35 m IRD 903/2: 0.5 m - 60 m |
| Tilt angle min.: | $\alpha = 6^\circ$ (see specification sheet) |
| Angular aperture: | IRD 901/2: 8° - 12° IRD 903/2: 3° - 5° |
| Sensitivity : | adjustable from approx. 100 % to 50 % (recommended setting approx. 75 %) |
| Speed of object: | 3 km/h - 100 km/h |
| Switch-off delay: | (2 – 15) sec. (below 3 sec. multiple detection of the same object is possible) |
| Operating temperature range: | in accordance with DIN VDE 0832 |
| Storage temperature range: | -40°C to +80°C |
| Enclosure: | anodised aluminium |
| Safety: | IP 64 |
| Connection: | clamp terminal (cable lead-in via two PG 11screw fixings) |
| Weight: | approx. 2 kg |
| Technical Data / Conformity | |
| Safety, Health | Guideline 73/23/EWG, R&TTE, Art. 3 (1) |
| EMV | Guideline 89/336/EWG, R&TTE, Art. 3 (1) |
| Radio | Not applicable |

Dimensions (in mm)

