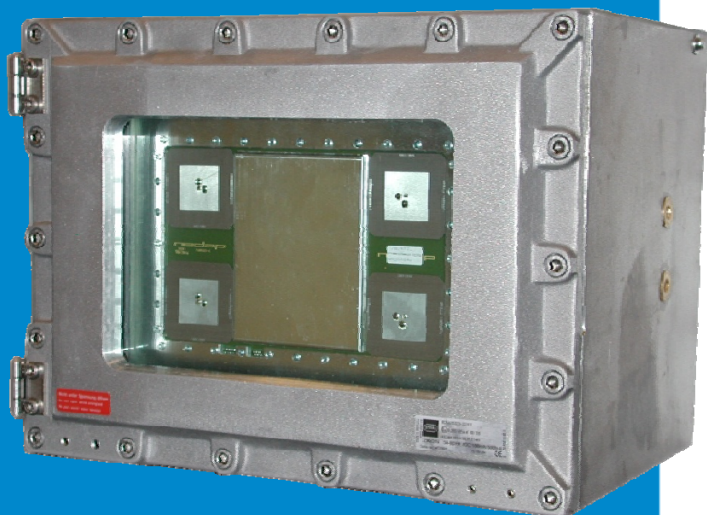


TRANSIT PS270 ATEX reader

Long range intrinsically safe vehicle identification reader

Key Features:

- ATEX approved enclosure
- Read range up to 10 meters [33 ft]
- Object speed up to 200 km/h [125 mph]
- Multi-channel frequency offset
- Variety of integrated interfaces



TRANSIT PS270 ATEX reader is the TRANSIT reader equipped with a special ATEX certified enclosure especially suited for long-range vehicle identification applications in harsh environments, which require explosion-protected equipment and where security and reliability are essential requirements.

The TRANSIT PS270 ATEX reader allows long range and handsfree vehicle identification in environments where there is a permanent danger of explosion. In such cases it is necessary to ensure that the electronically equipment used will not ignite potential explosive atmospheres.

The intrinsic safe housing of the TRANSIT PS270 ATEX readers is designed according to uniform international safety standards and approved by accredited test centers. The reader can be supplied with a certificate of conformity that the equipment is assembled accordingly. The TRANSIT PS270 ATEX readers fully comply with the European Directive for ATEX guidelines. Direct entry and indirect cable entry possible via cable glands, conduit hubs or EExe junction boxes.

Heavy Duty Tag ISO

Characterized by an excellent reading performance the TRANSIT PS270 ATEX reader can read microwave RFID tags, and allow applications in hazardous areas with the ATEX certified Heavy Duty Tag ISO. For more information we refer to the separate datasheet of the Heavy Duty Tag ISO.

Interfaces & protocols

The TRANSIT PS270 ATEX reader is designed for seamless and flexible integration to existing management systems such as access control, terminal automation, automated load and truck weighing systems. Several communication interfaces to the host system are available such as RS232, RS422, 20mA Current Loop, Profibus DP and TCP/IP. Also open industry standards such as Wiegand and Omron are supported. On request also customer specific protocols can be implemented.


Applications

Hazardous areas typically exist in chemical plants, oil and gas refineries, paint shops, cleaning facilities, milling and flour plants, tank and loading facilities for flammable gases, liquids and solids. By inhibition ignition of a potential explosive atmosphere, explosion-proof electronically equipment can eliminate danger at the source.

Change without prior notice/ version 2.1_English

Specifications

TRANSIT PS270 ATEX reader

| | |
|---|---|
| Dimensions | 480 x 360 x 340 mm [18.9 x 14.2 x 13.4 in] |
| Glass diameter | 300 x 200 mm [11.8 x 7.8 in] |
| Weight | 50 kg [109 lb] |
| Explosion protection | II 2 GD EEx d IIB T6 Class I Zone 1 AEx d IIB T6 (U.S.) or Class I Zone 1 Ex d IIB T6 (Canada)/ Class I, Div.2 Gro EEx d = Flameproof protection IIB = Gas explosion group for IEC/EN (Europe)/ Class I group 'C for NEC (North America) T6 = Temperature class IP66 = Ingress protection class (EN 60 529/ NEMA 4x) |
|  | |
| Certificate | KEMA 01 ATEX 2145 according to European Directive for equipment intended for use i potentially explosive atmospheres 94/9/EEC |
| Conformities | EN 50.014ff, EN 60.947-1, EN 60439-1, GOST R 51330ff (Russia), PN-EN 50014ff (Poland), 500 (USA), NEC(USA), 505(USA) , CEC (Canada) |
| Suitable for use in | Gaseous and dust filled atmospheres Zone 1, Zone 21, Zone 2 and Zone 22 |
| Construction | Body and cover in marine grade copper-free aluminium alloy, suitable for off-shore installations. |
| Finish | The enclosures are unpainted. |

TRANSIT PS270 ATEX reader

| | |
|--------------------------------|---|
| Detection range | Up to 10 meters [33 ft] |
| Range check | Acoustic by built-in beeper |
| Operating temperature | -40...+55°C [-40...+131°F] |
| Object speed | UP to 200 km/h [125 mph] at appropriate distance |
| Power | Europe: 230 VAC \pm 10%, 100 mA, 50-60 Hz / 22...30 VDC, max 1A US: 22..30 VDC, max. 1A |
| Power consumption | <25VA (on AC), <20 Watt (on DC) |
| Frequency offset | 138 channels [US 32 channels] channel spacing 600 kHz to avoid interference, to be us when TRANSIT readers are installed in close vicinity of each other |
| Polarisation | Circular (LHC) |
| Input | 1 dry contact or TTL |
| Relay output | 1 relay output (NO, common, NC), 24 VDC 2A, 120 VAC 1A |
| Output | Barcode 39, Wiegand 26-bit, Wiegand 32-bit, Wiegand 37-bit, FF56 and Omron ISO 78 |
| Antenna connection | Optional 1 external inductive antenna connection |
| Antenna output | 120 kHz |
| Interfaces | RS232, RS422, 20mA CL, Profibus DP, Multidrop and TCP/IP |
| Communication protocols | CR/LF, DC2/DC4, TCP/IP, Profibus DP and various OEM protocols (for more information firmware manuals) |
| Encrypted air interface | NEDAP proprietary encryption standard |
| Mounting | Optional Wall rail mounting kit for TRANSIT EX (EM 814537 rev.0) |
| Certifications: | |
| EMC | European Directive for EMC 89/336/EEC, EN50081-1, EN50082-1 and EN50082-2. ETS05 |
| Safety | EN 60950 |
| Regulations | FCC part 15.245 and ETS 300 440 |
| Part numbers | 9840990 TRANSIT PS270 ATEX |
| Documentation | TRANSIT_InstallGuide_English |
| Accessories | 7800150 Squelch Upgrade Board for read range adjustment 9875980 Heavy Duty Tag R/O ATEX approved microwave tag designed for harsh environments |

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