TRANSIT ATEX*

| long-range ATEX IECEx certified vehicle identification reader

KEY FEATURES:

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

TRANSIT PS270 ATEX IECEx reader is designed 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 IECEx reader operates at 2.45 GHz and can read Nedap tags at a distance of 10 meters [33 ft] at speeds of up to 200 km/h [125 mph].

The TRANSIT PS270 ATEX IECEx reader is type certified with certificate number KEMA 01ATEX2145 for use in potentially explosive atmospheres, zones 1 and 2 (gas) and zones 21 and 22 (dust).

Cable connections with the unit can be made via Exd cable glands or Exe junction boxes.

Heavy Duty Tag ISO

Characterized by an excellent reading performance the TRANSIT PS270 ATEX IECEx reader can read microwave RFID tags, and allow applications in hazardous areas with the ATEX IECEx , KEMA 09ATEX0016 issue 2 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 IECEx 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

Vehicle identification in hazardous areas as:

- Chemical plants
- Oil and gas refineries
- Paint shops
- Cleaning facilities
- Milling and flour plants
- Tank and loading facilities for flammable gases, liquids and solids

SPECIFICATIONS

Technical information	TRANSIT ATEX IECEx
Dimensions	480 x 360 x 340 mm [18.9 x 14.2 x 13.4 in]
Glass dimensions	300 x 200 mm [11.8 x 7.8 in]
Weight	50 kg [109 lb]
Protection	IP66
Enclosure material	Cast from marine grade copper-free aluminum alloy
ATEX Certificate	KEMA 01ATEX2145
ATEX Code	Ex II 2 GD Ex II 2 G Ex d IIB T6 Ex II 2 G Ex d IIB + H_2 T6 Ex II 2 D Ex tD A21 T80˚C IP6X
ATEX Standards	EN 60079-0: 2006 EN 60079-1: 2007 EN 61241-1:2004 EN61241-0:2006
Suitable for use in	Gaseous and dust filled atmospheres Zone 1, 2 and Zone 21, 22
Finish	Unpainted, optional paint finish according to customer specification on request
TRANSIT PS270 ATEX IECEx	
Detection range	Up to 10 meters [33 ft]
Range check	Acoustic by built-in beeper
Operating temperature	-55 ...+60˚C IIB, -20...+60˚C IIB+H_2, -55...+60˚C tD
Object speed	UP to 200 km/h [125 mph] at appropriate distance
Power	Europe: 230 VAC +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
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 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)
Certification:	
EMC	European Directive for EMC 89/336/EEC, EN50081-1, EN50082-1 and EN50082-2. ETS09
Safety	EN 60950
Regulations	FCC part 15.245 and ETS 300 440
Part numbersw	9840990 TRANSIT PS270 ATEX
Documentation	TRANSIT_InstallGuide_English
Accessories	7800150 Squelch Upgrade Board for read range adjustment 9875980 Heavy Duty Tag ISO
Document version nr.	v4.2