SmartNet-Pro Fire Alarm Interface Unit
Part Number: SN.IOU00.1

Interface with Two inputs & Two Outputs

The Cygnus SmartNet wireless fire detection and alarm system is a network of battery powered, wireless fire detection and alarm products suitable for permanent installations, commercial premises and HMOs.

The Fire Alarm Interface interfaces with Cygnus devices and other fire systems, sensors, detectors and switched power, having two configurable inputs and two outputs.

Other products in the range include Control Panels, Smoke and Heat Detectors, Sounders, Beacons and Manual Call Points.

Overview

- Reliable wireless mesh radio technology
- Inputs and outputs designed for connection using 20mm glands
- Sensitive radio with up to 750m range
- 868MHz radio (915MHz also available)
- Rugged design for outdoor use
- 3+ year battery life
- Designed to be EN 54 compliant
- Certified by Intertek
- Easy configuration via the Windows based CygnusConfig application
- Compatible with other Cygnus SmartNet devices

Features

Digital inputs	Two
Outputs	Two
Tamper switch	Lid
Cable glands	IP65 or IP33C min.
Cable gland type	Four 20mm or 16mm compression
Cable gland hole size	20mm hole or 16mm hole (use drilling template)

Parameters

Dimensions (mm)	230h x 125w x 61d
Weight	780g
Operating temperature	-25°C to +70°C
Storage temperature	-25°C to +70°C
IP rating	IP65 and IP33C, Type B (Outdoor)
Relative humidity	>95% @ 25°C to 55°C

Doc Number. 2000-DTS-0003
Issue Number. V0.5 05-07-2024

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Power

Operating voltage range	2.5 to 3.8V (from lithium batteries)
Main battery	3x ER26500 Li-SOCl$_2$ (lithium thionyl chloride)
Backup battery	1x CR123 (must be fitted)
Battery Voltages	ER26500 = 3.6V nom. CR123 = 3.0V nom.
Power consumption	3mW
Battery life	Min 3 years (normal operation)

Radio

Radio operating frequency	865 to 868 MHz
Radio category	Category 1
Channels	10 (with channel hopping algorithm)
Bandwidth	250kHz
Channel spacing	300kHz
Transmit power	10mW (maximum)
Duty cycle	<0.1%
Protocol	Cygnus mesh protocol
Encryption	TDES (64-bit payload, 192-bit encryption key)
Self-forming	Cygnus self-forming algorithm
Self-healing	Cygnus self-healing algorithm

Compliance

Current:
- ETSI EN 300 220-1 V3.1.1 (2017-02)
- ETSI EN 301 489-1 V2.2.2 (2019-09)
- ETSI EN 301 489-3 V2.1.1 (2019-03)
- EN61000-6-3:2007 +A1:2011
- EN50130-4:2011 +A1:2014
- EN61000-3-2:2014
- EN61000-3-3:2013

- EN 54-18:2005
- EN 54-25:2008

Independently tested
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