

SPECIFICATIONS



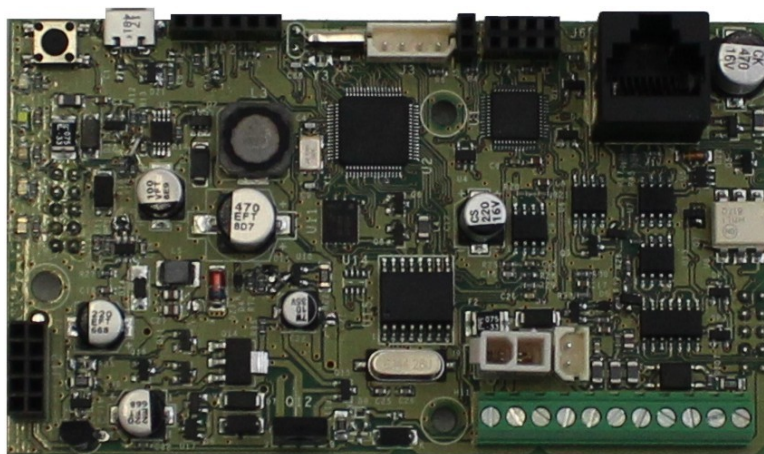
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5HL-405 HELPY CONTROLLER

DESCRIPTION

Elevator alarm system specifically designed for installation on elevator controllers, ready for connection over the GSM line with GSM Satellite module (5IG-010)

IMAGE



MAIN FEATURES

Emergency alarm call management and periodical test in compliance with EN 81-28:2018

Management of 12 programmable phone numbers to be freely associated with different alarm sources and called parties

Five call-forwarding modes: to a remote telephone or to a call center with manual-call management, to a call center with P100 or Esse-ti protocol, to a call center with CLI management, to a call center with SMS management (only with GSM Satellite module)

Multisharing function for simultaneous notification of the same emergency alarm to different receivers via SMS (only with GSM Satellite module)

Technological alarms: 2W speaker unit connection failure / low battery / replace battery / no external power supply / SIM card expiring alarm (with GSM Satellite module) / diagnostic / auxiliary alarm

Test of every type of alarm (local, remote or via software *e-stant*)

Missed test call notification in the car as per EN 81-28:2018 standard

Low battery signalling: via device status LED

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Event's log with timestamp on internal memory

Local programming modes: telephone (DTMF tones) / computer (via USB-serial cable and software e-stant)

Remote programming modes: telephone (DTMF tones) / computer (via HeGate modem and software e-stant +HeControl) / SMS (only with GSM Satellite module; SMS generation via software e-stant)

Programmable handsfree connection mode

Programmable alarm reset mode

Telephone line presence check

Electronic management of speaker unit's volume

Multi-link function to connect up 9 alarm systems over one PSTN line or universal GSM gateway

Clock management

SIM card PIN management (with GSM Satellite module)

Serial connection to elevator CPU

POWER SUPPLY FEATURES

Power supply: 12 VDC nominal, 11,5 VDC min., 14 VDC max.

Absorption in idle state: <55 mA over PSTN line; <60 mA with GSM Satellite module

Absorption alarm conversation mode: <130 mA over PSTN line; <135 mA with GSM Satellite module

Self-restorable fuse on power supply input

Internal voltages: +1,8 V , +3,3 V, +5 V

PROTOCOLS

Remote programming protocol: proprietary

Service center protocols: P100, Esse-ti

Other protocols upon request

DATA TRANSMISSION AND SIGNALLING SYSTEM

Built-in Modem v.23 if connected to PSTN line: 300-1200 bps FSK

GSM Modem if connected to GSM Satellite module: 9600 bps

Type of dialing over external line: DTMF

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DTMF generator

External line tone recognition: 85 countries

VOICE MESSAGES

Pre-recorded languages: 8 (Italian / English / German / French / Polish / Russian / Spanish / Flemish)

Pre-recorded voice messages: 30 minutes, restorable

Messages that support the programming

Alarm messages

Elevator identification message: customizable (max. 25 s)

Courtesy message for the car: multi-language, customizable (max. 25 s)

Messages customization: via computer (via USB-serial cable and software *e-stant*)

TELEPHONE TERMINATIONS

Connection to public telephone network or universal GSM gateway: terminal block over optional PSTN-line board

Connection to GSM Satellite module: plug RJ-45

Local telephone connection: terminal block

Machine room speaker unit connection: connector

2-wire bus for the connection of 2W speaker units: terminal block

Up to 16 2W speaker units connection (4 with direct power supply from the bus and 12 with separate power supply)

CONNECTIONS

Internal line – External telephone line

Internal line – Speaker unit

External telephone line – Speaker unit

INPUTS / OUTPUTS

Reset pushbutton

Alarm inputs: via 2W speaker units

Customizable inputs (alarm / auxiliary / reset input): via 2W speaker units

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Filter inputs: 1 (programmable as reset input)
Outputs (alarm given, alarm received): via 2W speaker units
LED signalling device status: 1
LED signalling GSM Satellite module signal: 1
LED signalling data transmission: 1
LED signalling alarm / periodical test call: 1
LED signalling power supply status: 1
12 V backup battery connector: 1
Serial port for PC connection: 1
Micro USB A/B port for PC connection: 1
Serial port for elevator CPU connection: 1

SAFETY SYSTEMS

FLASH memory for data protection under power failure
Double watch-dog system

FIRMWARE UPDATE AND PROGRAMMING PATTERN

Local: via computer (via USB-serial cable and software *e-stant*)
Remote: OTA (via GPRS, only with GSM Satellite module)

OTHERS FEATURES

Dimensions board: 109x62 mm
Weight: 52 g