



ORDER CODE
8D5899



APPLICATIONS

Lifts
Escalators

CERTIFICATIONS

CE Marking
RED
RoHS

PACKAGE CONTENTS

8D5899 LOOK@BOX
Switching power supply unit (IN: 100-240 Vac / 50-60Hz / 0.5A - OUT 12 Vcc / 1A)
2G antenna with 3 metre cable
8 Terminal Block Connectors
Roof mounting kit
Operating Manual

IoT sensor for Lifts

- 2G Module
- 3-Axis Accelerometer
- Integrated algorithm for: Run counting, Sudden lockouts, Electrical blackouts, Abnormal vibrations, Levelling at floor (requires external reed)
- Remote updating

Look@BOX is an IoT sensor for the Lift and Escalator market born from Digicom's experience in the development of BlackBox in the automotive sector. The development of algorithms capable of analysing driving style (driver behaviour) and identifying accidents (crash detection) was the starting point for this product generation.

Look@BOX is designed to be installed on the roof of the car and has the task of "capturing" accelerometer traces.

By means of specific algorithms, it will identify for each run: Direction, Duration, Speed, Distance travelled, Blockages and Abnormal vibrations.

Additional information can then be integrated by remote On/Off contacts via 4 opto-isolated inputs, temperature with the PTC input, and Blackouts using the backup battery.

In addition, with the use of an external sensor, it is also possible to detect floor levelling accurately.

Through the MQTT protocol, Look@BOX will send the data to the Digicom Look@CLOUD platform or to third-party platforms where further Anomaly Detection and Predictive Maintenance algorithms will be defined with the collected data.

Thanks to the Bluetooth interface, it is possible to update and configure the device locally (via APP on Mobile Phone) and interface specific Bluetooth sensors such as Look@DOOR.

The dedicated sensor for the lift car door is able to detect: opening movement, closing movement with relative timing or any barrier activation.



TECHNICAL CHARACTERISTICS

NETWORK TYPE	GSM/GPRS/EDGE Quad-Band: GSM 850 MHz - E-GSM 900 MHz - DCS 1800 MHz - PCS 1900 MHz GSM/GPRS Power Class EDGE Power Class Bluetooth Low Energy (BLE) 4.0 - operating frequencies 2.402- 2.480 GHz, max Power +8 dBm GNSS Receiver 1574.4 to 1576.44 MHz GPS Receiver 1575.42 MHz
PROCESSOR	ARM7 EJ-S @260 MHz
GENERAL SPECIFICATIONS	3-Axis Accelerometer Sampling frequency 100Hz Tri-axial data storage of each trip Transfer of trip data via GPRS 4 inputs (e.g. for door opening and closing detection) 1 RS485/RS232
ANTENNA	External GSM
SIM	Mini-SIM support
POWER SUPPLY	12-24 Vcc
BACKUP BATTERY	Internal rechargeable (2x AAA)
TEMPERATURE	from 0°C to +45°C
VARIOUS	Dimensions: 115 × 80 × 45 mm