

FALCON

The **microwave sensor** for the opening of all industrial automatic doors.

The **FALCON**, waterproof high performance sensor, discriminates vehicles from pedestrians and rejects the parallel traffic. The planar antenna, a **premiere** in the field of the industrial sensors, provides accuracy and stability of the sensing field.

- 1 FALCON** : able to discriminate pedestrians and vehicles independently of the mounting height and the speed of the target.
- 2 FALCON** : able to reject parallel traffic of any target once the pedestrians/vehicles discrimination is activated
- 3 FALCON** : planar technology used for the first time in an industrial automatic door sensor providing high precision of the sensing field and high stability during the life cycle
- 4 FALCON** : the smart, flat and robust IP 65 housing was designed to increase the **waterproof** character of the sensor
- 5 FALCON** : easy to install on the wall or at the ceiling thanks to a **universal bracket**
- 6 FALCON** : easy to **adjust** by remote control or waterproof push buttons at the front of the sensor

Why does **FALCON** look different ?



 **toshiba** 
AUTOMATIC SYSTEMS PVT. LTD.




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DESCRIPTION



- 1 Main cable
- 2 Bracket
- 3 Washer to attach the bracket to the sensor
- 4 Screw to attach the bracket to the sensor
- 5 Locking collar
- 6 Grommet
- 7 Area of the green LED
- 8 Area of the red LED
- 9 Push button
- 10 Area of the infrared receiver
- 11 Screw to attach the front cover
- 12 Planar antenna



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PRODUCT RANGE

FALCON	from 3.5 to 7 meters
FALCON XL	from 2 to 3.5 meters

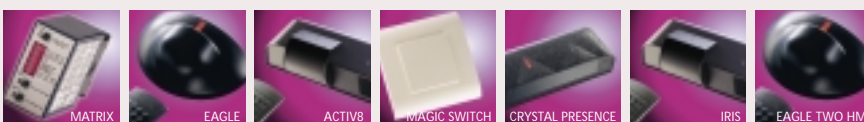
TECHNICAL SPECIFICATIONS

Technology	Microwave and microprocessor
Transmitter frequency	24.125 GHz
Transmitter radiated power	<20 dBm EIRP
Transmitter power density	< 5mW/cm ²
Tilt angle	0° to 180° in elevation
Mounting height	Falcon : 3.5 to 7m - Falcon XL : 2 to 3.5m
Detection zone (typical)	<ul style="list-style-type: none"> • Falcon XL 4m (W) x 2m (D) installation height 2.5m • Falcon 4m (W) x 5m (D) installation height 5m
Detection mode	Movement
Minimum detection speed	5 cm/s (measured in the sensor axis)
Supply voltage	12V to 24V AC +/- 10% 12V to 24V DC +30% / -10%
Mains frequency	50 to 60 Hz
Power consumption	< 2W
Output relay	Free of potential change-over contact
<ul style="list-style-type: none"> • Max contact voltage • Max contact current • Max switching power 	42V AC/ DC 1A (resistive) 30W (DC) / 60VA (AC)
Hold time	0.5s to 9s (adjustable)
Manual adjustment	Orientation of sensing field (mechanically) Multiple functions (by push buttons)
Remote control adjustments	Sensitivity, hold time, detection mode, pedestrian and parallel traffic rejection mode, relay configuration
Temperature range	-30°C to +60°C
Degree of protection	IP65
Product conformity	R&TTE 1999/5/EC EMC 89/336/EEC
Dimensions	127mm (D) x 102mm (W) x 96mm (H)
Weight	400 g
Plastic of the housing	Black ABS and Polycarbonate
Bracket	Black anodized aluminium
Cable length	10 m
Cable diameter	3 mm (minimum) - 6.5 mm (maximum)

APPLICATIONS



BEA PRODUCTS



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