PRODUCT DATASHEET

ABT Series

Dual-beam digital active infrared detector

Detection principle

A transmitter sends two pulsed infrared beams to a receiver. An alarm is triggered when both beams are interrupted at the same time.

Six models cover outdoor distances from 20 to 100 m and indoor distances from 60 to 300 m.



Model comparison

Model	ABT-20	ABT-30	ABT-40	ABT-60	ABT-80	ABT-100
Outdoor range	20 m	30 m	40 m	60 m	80 m	100 m
Indoor range	60 m	95 m	120 m	180 m	240 m	300 m
Maximum current	40 mA	40 mA	55 mA	55 mA	65 mA	65 mA

Detector features

Strong-light filtering

Automatic filtering helps reject sunlight and vehicle lights, up to 50,000 lux.

Optical design

The beam can pass through multiple layers of glass. An environment distinguishing circuit (EDC) is built in.

Housing and interference protection

The integrated housing resists rain, fog, dust and insects. The detector resists radio-frequency and electromagnetic interference.

Lens and installation options

Choose a spherical or wider-beam Fresnel lens. Modular detectors can be added or stacked. Beam interruption time is adjustable.

ASCENDO

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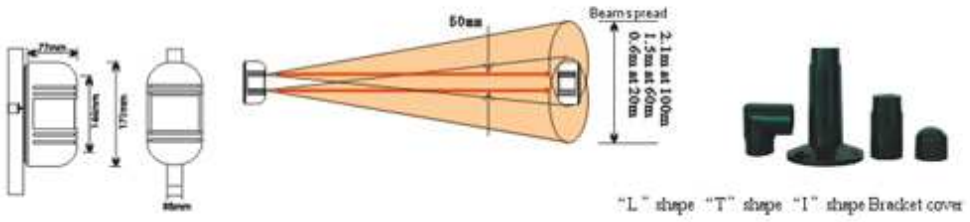
Technical specifications

Number of beams	2
Alarm condition	Both beams blocked simultaneously
Optical source	Digitally pulsed infrared beam
Response time	50 to 700 ms, adjustable
Alarm relay	NO or NC contact; 30 V AC/DC, 0.5 A maximum
Supply voltage	13.8 to 24 V DC or 11 to 18 V AC
Maximum current	40, 55 or 65 mA, depending on model (see page 1)
Operating temperature	-25°C to +55°C
Operating humidity	5% to 95% RH
Tamper output	NC contact; 24 V AC/DC, 0.5 A maximum
Horizontal optical adjustment	180° total (±90°)
Vertical optical adjustment	20° total (±10°)
Frost and dew protection	Optional heated cover
Housing material	PC resin (polycarbonate)
Weight	2,000 g per set (one receiver and one transmitter)
Appearance and dimensions	See original drawings below

Dimensions and mounting





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