



Eyetec IRO840T

Sensor Fusion

Optical Dual Motion Detector

Eyetec, the intelligent combination of two systems: passive infrared (PIR) and optical detection system (ODS)

-
- **Unrivalled catch performance**
 - **Unsurpassed in avoiding false alarms**
 - **One single detector meets Standard EN 50131-2 Grade 4**
 - **Unique anti-blocking surveillance protects from sabotage**
 - **Locally stored alarm images show intrusion course**
 - **Exclude areas from surveillance**
 - **Detection of walking direction**
 - **Parameterization with the communication tool**

Unrivalled catch performance. The newly developed combination of PIR and optics creates new possibilities in intrusion detection. This sophisticated combination the Eyetec IRO840T offers the best possible surveillance and is unrivalled in detecting any intrusion.

Unsurpassed in avoiding false alarms. A unique combination of the well-known top Siemens PIR technology with the image processing algorithms gives an unprecedented immunity against unwanted alarms. The Eyetec IRO840T uses an algorithm for image analysis and a passive infrared sensor. The signals measured with these two techniques are then evaluated by Sensor Fusion. This technology perfectly distinguishes between all known disturbance signals and intruders.

One single detector meets Standard EN 50131-2 Grade 4. In merging the two technologies PIR and ODS Siemens fulfills the European EN 50131-2 standard with one single Eyetec IRO840T.

Unique real time anti-blocking surveillance protects from sabotage. The real time surveillance of the anti-blocking system reliably detects sabotage attempts not only in the close area of the detector, but in the whole effective surveillance range. This allows highest security areas to be covered with just one single detector.

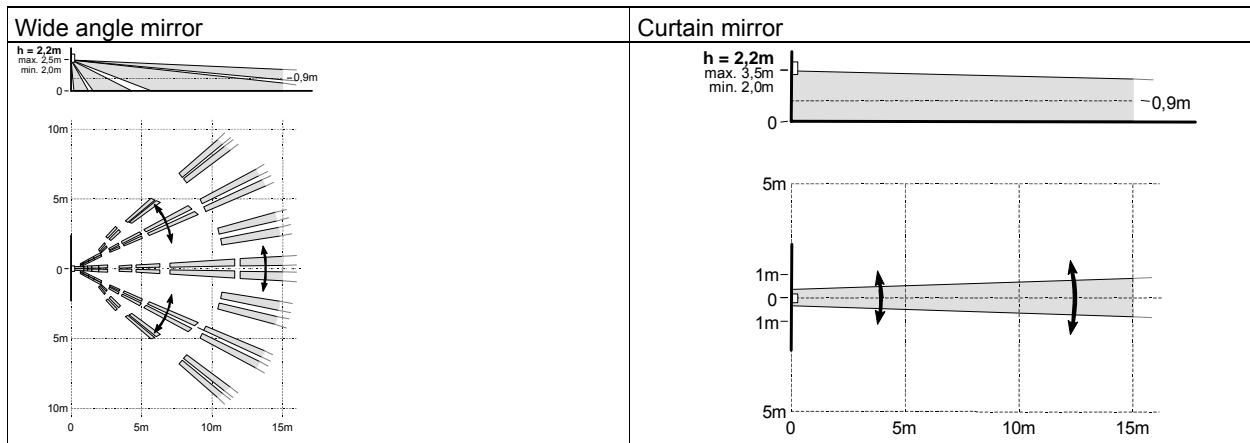
Locally stored alarm images show intrusion course. The 15 images available in the IRO840T make the cause of an alarm visible. Pictures are made before, during and after an alarm happens. The points in time for storing the images can be set individually.

Exclude areas from surveillance. The Eyetec IRO840T offers the possibility to exclude specific zones within the surveyed area. Moving objects, such as ceiling fans, and accessing specific areas are no problem during active surveillance mode.

Detection of walking direction. The Eyetec IRO840T records walking directions of persons within the surveillance area. With the IRO840T specific walking direction can be set to generate an alarm.

Parameterization with the communication tool. With the optional accessory IRO ComTool you can enhance the existing functionalities of the Eyetec IRO840T. Thanks to its many parameterization possibilities the detector can exactly be adjusted to its environment. For instance, with the accessory you can adapt the detector's perspective to its surrounding. The IRO ComTool includes a user-friendly software and a connecting cable.

Dimensions



Technical data

Power supply	8 ... 16 VDC (12 V nom.)
– max. ripple (0 ... 100 Hz)	2.0 VPP
– voltage monitoring	Alarm < 5.5 ... 7.5 V
Current consumption	at 8 ... 16 VDC
– quiescent	18 mA (12V); 16 mA (16V); 22 mA (8V)
– max.	24 mA (12V); 20 mA (16V); 32 mA (8V)
Disturbance & anti-mask output	
– relay	opens for disturbance or masking
– contact load rating	30 VDC / 100 mA (ohmic load)
– series resistance	< 45 Ω
Alarm output	
– relay	opens at alarm
– alarm holding time	2 ... 3 s
– contact load rating	30 VDC / 100 mA (ohmic load)
– series resistance	< 45 Ω
Tamper output	
– relay	opens in case of tamper
– holding time	2 ... 3 s
– contact load rating	30 VDC / 100 mA (ohmic load)
– series resistance	< 45 Ω
Illumination output	
– relay	closes when the room illumination is not sufficient
– contact load rating	30 VDC / 100 mA (ohmic load)
– series resistance	< 45 Ω
Control input	
– control signal	LOW ≤ 1,5 VDC / HIGH ≥ 3,5 VDC
Breakage/removal contact	
Released through tamper contact	
Walking speeds	
– wide angle mirror (standard)	0.1 ... 4.0 m/s
– curtain mirror IRS272 (option)	0.1 ... 4.0 m/s
Environmental conditions/ standards	
– operating temperature	- 20 ... + 55°C
– VdS approved env. Class II	- 10 ... + 55°C
– storage temperature	- 20 ... + 60°C
– air humidity (EN 60721)	class F (< 95% rel), non-condensing
– EMC resistance up to 2 GHz	30 V/m
– housing protection (EN 60529, EN 50102)	IP41 / IK02
– VdS environment class	II
– EN-50131-2	Grade 4

Details for ordering

Type	Art. No.	Designation	Weight
IRO840T	A5Q00003034	Optical dual detector IRO840T	0,268
IRO ComTool	A5Q00004266	IRO accessory set	
IRS272	571 733	Curtain mirror	0,050
IRUM20	562 247	Mounting bracket, wall	0.050
IRUM30	562 250	Mounting bracket, ceiling	0.095
	503 251	Anti-tamper seal	--

Siemens Switzerland Ltd
Building Technologies Group
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41 – 724 24 24
Fax +41 1 – 724 36 17
www.sbt.siemens.com

© 2005 Copyright by
Siemens Switzerland Ltd. - Building Technologies
Data and design subject to change without notice.
Supply subject to availability.