

IS412

Passive infrared barrier

for external perimeter surveillance

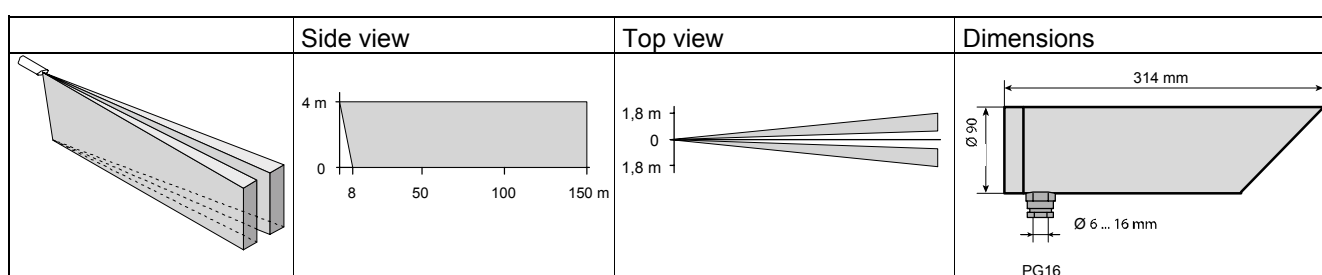
- **Up to 150 m continuous curtain-shaped detection zone**
- **High sensitivity throughout the detection zone**
- **Wide operation temperature range by regulated heating**
- **Attractive robust white plastic housing**

Versatile in application. The excellent detection characteristics, large range even in adverse weather conditions and ease of installation permit the use of the IS412 wherever the installation of active barrier systems is impossible or inappropriate.

Secure monitoring. The barrier is installed in fenced-in or restricted access areas in military camps, detention centres, industrial premises, private grounds or for the protection of long window or door fronts.

Highly professional. An optical system filters and focuses the infrared radiation detected in a curtain-shaped zone onto a special configuration of multiple pyro-electric differential sensors. A selective differential signal processor and switchable Adaptive Threshold Decoding (ATD) for ambient condition feedback considerably reduce the risk of false alarms.

Coverage areas and dimensions



Technical data

Range	
– Nominal	max. 150 m
– At visible below 100 m	max. visibility + 50%
Supply voltage	10.5 ... 28 VDC
– Max. ripple (0 ... 100 Hz)	1 VPP
Current consumption (at 12 VDC)	
– Standby	22 mA
Heating element for the optics	
– Supply voltage	10 ... 30 VDC/AC
– Capacity	max. 1 W
– Regulation	over PTC resistor
Relay alarm output	
– NC contact	28 VDC / 250 mA (3 W)
– Alarm hold time	0.2 ... 10 s (default = 0.2 s)
Electronic alarm output	
– Open collector	NPN, 30 VDC / 20 mA
– Output impedance	typ. 25 Ω
– Overload protection	PTC resistor
Tamper output	
– Opens on tamper	max. 48 VDC/AC / 250 mA
Settings	
– ATD – Adaptive Threshold Decoding	activated / deactivated
– Detection sensitivity	20 ... 140% (default = 80%)
Environmental conditions	
– Operating temperature	- 40 ... + 60°C
– Storage temperature	- 50 ... + 70°C
– Air humidity (EN 60721)	< 95% rh, non-condensing
– Housing protection (EN 60529, EN 50102)	IP53

Ordering data

Type	Art. No.	Designation	Weight
IS412	445500	Passive infrared barrier	1.250 kg
ISIT44	476993	Installation tester	0.610 kg
ISMD41-1	445539	Mounting flang for pole	0.975 kg
ISMD41-2	445542	Universal mounting flang	0.451 kg
ISTC41	445526	Installation telescope	0.320 kg