

# DDI602AM-F1

Outdoor Dual Technology/AM detector 10.525 GHz 10/20/30m selectable

## Outdoor Dual Technology motion sensor with AntiMask functionality

DDI602AM-F1 Outdoor Dual Technology/AM Detector is an outdoor motion detector and alarm trigger using two independent passive infrared elements plus a microwave sensor module. In addition it has an Anti-Masking functionality achieved by active infrared technology that will detect masking events as required by the EN Grade III standard. DDI602AM-F1 delivers precise, reliable presence detection.

## Easy and quick to install

Programmable options include a LED enabling/disabling function, a variable pulse count and a choice of three detection ranges: 10 m, 20 m, 30 m. The motions sensor includes jumpers that let you configure internal end-of-line (EOL) resistor values, when EOL resistors are required. You even have the feature to use the triple EOL resistor values configuration in order to have different EOL resistor values for a detector fault and a masking event.

Moreover, the integral dual-axis tilt sensor allows -45° to +45° of pan and +45° of tilt, which increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern.

## Aesthetics and hidden sensor module

The design has a neat and professional appearance that gives no visible indication of the orientation of the detector head and totally hides the wiring.



## Standard Features

- Electronic range setting: 10/20/30m
- Attractive aesthetics
- 10 to 70° detection angle
- -45° to +45° pan and +45° tilt for flexible install
- Sensor module is hidden
- Built-in EOL resistors with triple EOL configuration capability
- High dust & humidity resistance (IP55)
- 5 years warranty
- EN Grade III certified

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## Specifications

<b>General</b>		<b>Current</b>	
Technology	Dual		21 mA (12 V nominal)
Anti masking	Yes	<b>Pulse count</b>	1 or 2
Pet immune	No	<b>Temperature compensation</b>	Analogue (thermistor) and digital sensitivity adjustment
Camera	No	<b>Control</b>	Digital microprocessor with non-volatile memory
<b>Detection</b>		<b>Operating/storage temperature</b>	-30 to +65°C
Max. detection range	30 m	<b>Housing</b>	High impact ABS plastic with HDPE cover, UV stabilized
Detection range selection	10, 20, or 30 m	<b>Dimensions, W x H x D</b>	125 x 175 x 130 mm
Coverage (field of view)	70°	<b>Weight</b>	365 g net, 551 g gross
Undercrawl protection	No	<b>Microwave module</b>	10.525 GHz (Albania, Argentina, Australia, Belgium, Brazil, Denmark, Holland, Hungary, Iceland, Indonesia, Latvia, Lithuania, Malta, Norway, Sweden, Portugal, Russia, South Africa, Spain, Taiwan, Ukraine, USA)
Microwave frequency (nom.)	10.525 GHz	<b>Mounting height</b>	Variable up to 6 m / Optimum height 3 m for full range
Alarm time	5 sec	<b>Environmental testing</b>	EN 50130-5, Class IV certified
<b>Wired/wireless</b>		<b>Security approval</b>	EN Grade III certified
Wired-wireless	Wired	<b>Ordering Information</b>	
<b>Inputs/outputs</b>		<b>Part No.</b>	<b>Description</b>
Alarm relay characteristic	NC / NO, Volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor	DDI602AM-F1	Outdoor Dual Technology/AM detector 10.525 GHz 10/20/30m selectable
Anti mask relay characteristic	Volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor		
Relay configuration	Multiple EOL values		
<b>Electrical</b>			
Power supply value	10 to 15 VDC		
Current consumption	21 mA		
<b>Physical</b>			
Physical dimensions	125 x 175 x 130 mm		
Net weight	365 g		
Shipping weight	551 g		
Colour	Silver		
Material	High impact ABS plastic with HDPE cover, UV stabilized		
Mounting height	3 to 6 m		
<b>Environmental</b>			
Operating temperature	-30 to +65°C		
Environment	Outdoor		
IP rating	IP55		
<b>Standards &amp; regulation</b>			
EN50131 grade	Grade 3		
<b>Detection Area</b>			
	Programmable: 10 m, 20 m or 30 m		
<b>Coverage</b>			
	10 to 70° detection angle, 30 x 24 m coverage max.		
<b>Adjustment</b>			
	-45° to +45° pan, +45° tilt		
<b>Fresnel lens</b>			
	28 zones for each detection element, which can be masked with the curtain sliders		
<b>Customized optics</b>			
	Double silicon shielded quad element eliminates 50,000 lux of white light		
<b>Outputs</b>			
	Silent, solid state, magnetically immune. Microwave AND PIR.		
N/O	Volt free relay, signal contact 24 VAC/DC at 50 mA with an integral 25 Ohm series resistor. Alarm time 5 seconds.		
N/C	Volt free relay, signal contact 24 VAC/DC at 50 mA with an integral 25 Ohm series resistor. Alarm time 5 seconds.		
<b>Fault/Mask</b>			
	Volt free relay, signal contact 24 VAC/DC at 50 mA with an integral 25 Ohm series resistor.		
<b>Power input</b>			
	10 to 15 VDC		