



EN 50131-1  
EN 50131-2-2  
EN 50130-4  
EN 50130-5  
CEB T031



# QIR100H, QIR200H, QDT200H, QDT200HM

## DETECTORS

### QIR100H

Wired indoor detector with infrared technology and anti-tamper function.

QIR100H is the motion detector of the QTech product line with wired connection and infrared technology capable of covering a detection area of 15m.

The device is equipped with digital analysis of signals, automatic temperature compensation functions and the possibility to program a series of parameters including the adjustment of sensitivity.

The QIR100H detector is equipped with protection against opening attempts and is certified to grade 2 according to the EN50131-2-2 standard.



QIR100H



QIR200H,  
QDT200H,  
QDT200HM

### QIR200H

Wired indoor detector with infrared technology and anti-tamper function.

The wired QIR200H motion detector from the QTech product line is designed to meet the protection and security needs of indoor environments through infrared detection technology.

The device integrates anti-tamper protection against opening and dislodgement tamper and is certified to grade 2 according to the EN50131-2-2 standard.

### QDT200H

Wired indoor detector with infrared-microwave technology.

The QDT200H belongs to the category of the wired volumetric detectors in the QTech line and provides 15m coverage. The dual technology of infrared and microwave, digital analysis of signals and automatic temperature compensation ensure protection of indoor environments.

The device is equipped with "AND" and "Smart-OR" functions for the generation of alarms: in the first case, the signal is activated when both sensors detect motion at the same time; in the second case, the signal is activated when only one of the two sensors detects motion for a prolonged period. The programming procedure allows the customization of a series of parameters, including the independent configuration of the sensitivity of the infrared and microwave sensors.

QDT200H also integrates anti-tamper protection against opening and dislodgement tamper and is certified to grade 2 according to EN50131-2-4 standard.

### QDT200HM

Wired detector with infrared-microwave technology and anti-masking function.

The QDT200HM indoor motion detector from the QTech line has dual infrared and microwave technology capable of covering a detection area of 15m and digital analysis functions for intrusion attempt signals.

The device is equipped with "AND" and "Smart-OR" functions for the generation of alarms: in the first case, the signal is activated when both sensors detect motion at the same time; in the second case, the signal is activated when only one of the two sensors detects motion for a prolonged period. The programming procedure allows the customization of a series of parameters, including the independent configuration of the sensitivity of the infrared and microwave sensors.

QDT200HM also integrates anti-tamper protection against opening, dislodgement and masking tamper and is certified to grade 2 according to the EN50131-2-4 standard.

## — TECHNICAL SPECIFICATIONS

### QIR100H, QIR200H

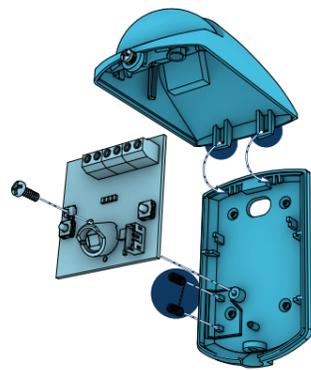
- Digital signal analysis
- Coverage: 15m
- Detection angle: 90°
- Pulse counter
- Temperature compensation
- White light immunity (for QIR200H only)
- Signalling LEDs
- Signals from bypassable LEDs
- Anti-opening protection
- Protected against break-off tamper (for QIR200H only)
- Adjustable sensor sensitivity
- EOL resistors (for QIR200H only)

### QDT200H, QDT200HM

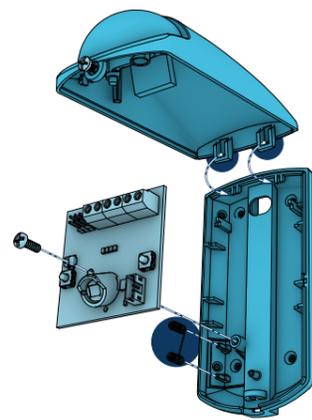
- Digital signal analysis
- Coverage: 15m
- Detection angle: 90°
- Pulse counter
- Temperature compensation
- White light immunity
- Signalling LED
- Signals from bypassable LEDs
- Anti-opening protection
- Protected against break-off tamper
- Anti-masking protection (for QDT200HM only)
- Bypassable sensors
- Adjustable sensor sensitivity
- EOL resistors
- "AND" and "Smart-OR" functions for alarm trigger

Main features	QIR100H	QIR200H	QDT200H	QDT200HM
Operating voltage				
Input voltage	range: from 10 to 16 V $\overline{\text{~}}$ nominal: 12.6 V $\overline{\text{~}}$			
Stand-by current draw	11mA @ 12.6 V		10mA	15mA
Maximum current draw	13mA @ 12.6 V		14mA	20mA
Detectors type	digital dual PIR		digital dual PIR, microwave module	
Detection mode	Infrared emission		Infrared emission + doppler effect	
Type of microwave antenna	-		Plane antenna with FET-GaAs oscillator	
Intrusion alarm output	N.C., 16 V $\overline{\text{~}}$ , 100 mA max.			
Tamper output	N.C., 16 V $\overline{\text{~}}$ , 100 mA max.			
Detection range (max.)			15m	
Detection angle			90°	
Security rating			2	
Complies with standards	EN50131-2-2		EN50131-2-4; EN50131-5-3	
Environmental class	II			
Installation method	wall-mounting			
Installation height	2.2m			
Dimensions (HxWxD)	96 x 60 x 44 mm		120 x 60 x 48 mm	
Weight	62g	77g	100g	
Microwave				
Band frequency	-	-	QDT200H-A: 10,520 - 10,530 GHz QDT200H-D: 10,582 - 10,592 GHz	QDT200HM-A: 10,520 - 10,530 GHz QDT200HM-D: 10,582 - 10,592 GHz
RF output power (max.)	-	-	<20 mW e.i.r.p. (13 dBm)	
Operating environmental conditions				
Temperature	from -10 to +40 °C			
Relative humidity	≤93% without condensation			

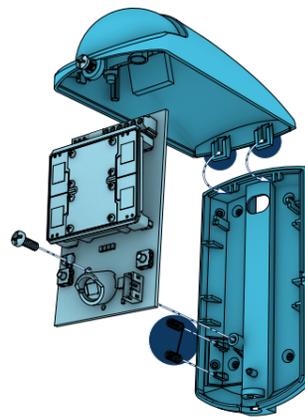
## INSTALLATION



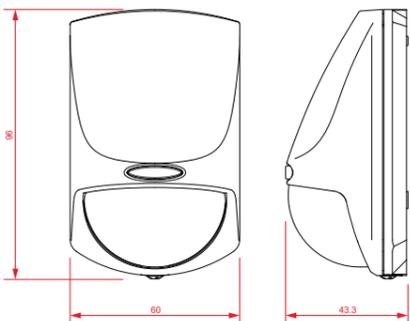
QIR100H



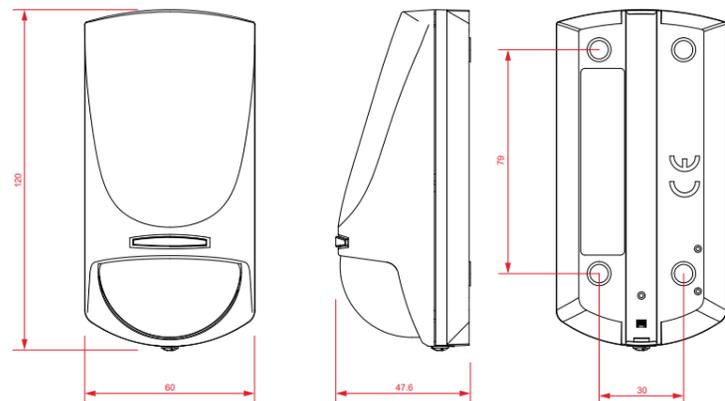
QIR200H



QDT200H, QDT200HM



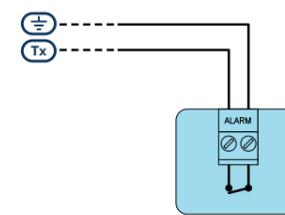
QIR100H



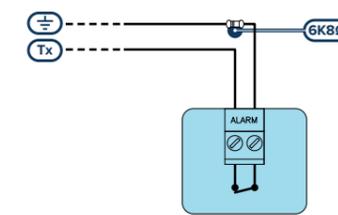
QIR200H, QDT200H, QDT200HM

## Balancing

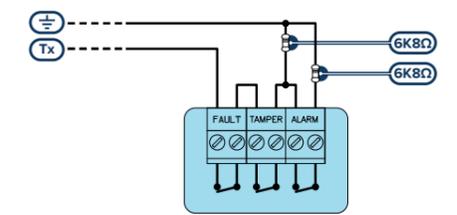
### N.C./N.O.



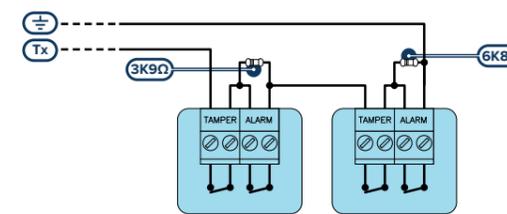
### Single balancing



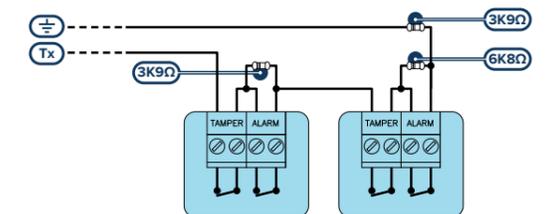
### Double balancing



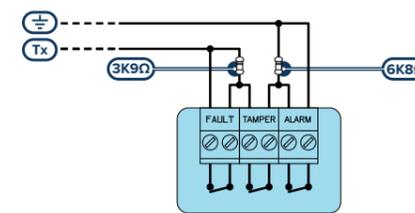
### Double zone balancing



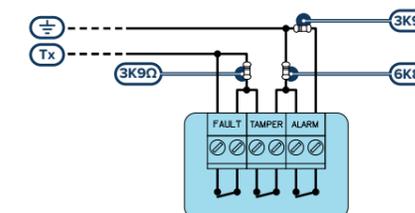
### Double zone balancing with EOL



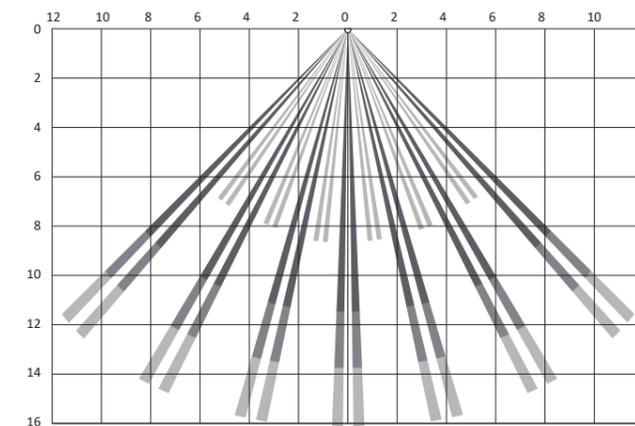
### Triple balancing



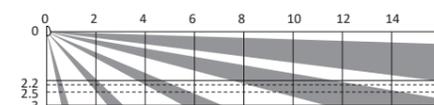
### Triple balancing with EOL



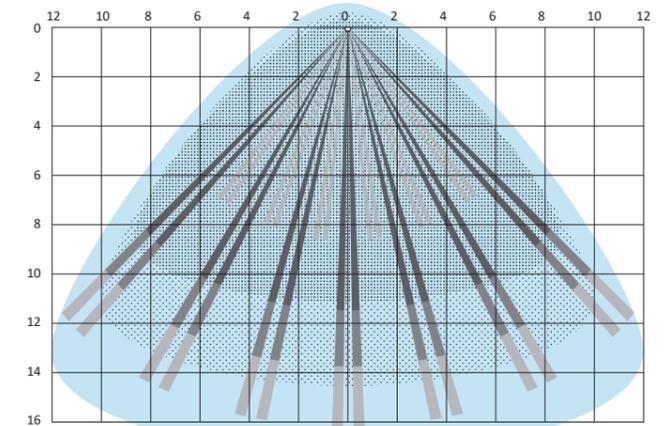
## Coverage



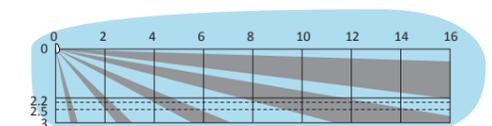
QIR100H, QIR200H – Top view



QIR100H, QIR200H – Side view



QDT200H, QDT200HM – Top view



QDT200H, QDT200HM – Side view



## — ORDER CODES

<b>QIR100H</b>	Indoor passive infrared detector.
<b>QIR200H</b>	Indoor passive infrared detector.
<b>QDT200H</b>	Indoor combined passive infrared and microwave detector.
<b>QDT200HM</b>	Indoor combined passive infrared and microwave detector with anti-masking protection.
<b>XBK100</b>	Swivel bracket for QTech detectors.



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