

TC – D Sensor Heads

- One Sensor Head each side of the entrance.
- When purchasing the pricing quoted is for a pair – Sender (Black Cable) and Receiver (Grey Cable).
- Operating Range to 6 Metres.
- Use 13 mm drill for holes for the sensor heads.
- Push in style.
- External diameter 15 mm.
- Supply Voltage 10-30 VDC
- Switching Current max. 100 mA
- IP67

Cable Connections when supplied with shielded cable:

	<u>Grey Sensor Cable</u>	<u>Black sensor cable</u>	<u>Cat5</u>
NPN Trigger	White	-	Orange/White
Ground	Shield	Shield	Blue
+12 volts	Red	White	Blue/White

Cable Connections when supplied with unshielded cable:

	<u>Grey Sensor Cable</u>	<u>Black sensor cable</u>	<u>Cat5</u>
NPN Trigger	Black	-	Orange/White
Ground	Blue	Blue	Blue
+12 volts	Brown	Brown	Blue/White

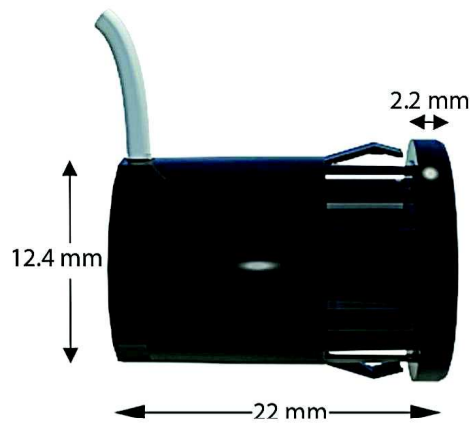
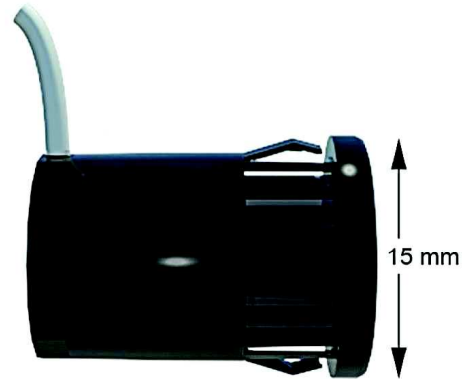


TotalCount

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People Counter Sensor head - one in each door jamb

Drill 13mm Hole



Front View

Sensor Heads – Technical data

System components	
Emitter	BB10-T/33/76b/115-7m
Receiver	BB10-R/33/59/102/115-7m
General specifications	
Effective detection range	0 ... 6 m
Threshold detection range	8 m
Light source	IREC
Light type	modulated infrared light , 880 nm
Diameter of the light spot	approx. 1300 mm at a distance of 6 m
Angle of divergence	Emitter: +/- 8 ° Receiver: +/- 10 °
Optical face	frontal
Ambient light limit	halogen light 100000 Lux ; according to EN 60947-5-2:2007
Functional safety related parameters	
MTTF _d	795 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Indicators/operating means	
Function display	LED red: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted
Electrical specifications	
Operating voltage	U _B 10 ... 30 V DC
No-load supply current	I ₀ Emitter: ≤ 20 mA Receiver: ≤ 10 mA
Input	
Test input	emitter deactivation at 0 V
Output	
Switching type	dark on
Signal output	1 NPN output, short-circuit protected, reverse polarity protected, open collector
Switching voltage	max. 30 V DC
Switching current	max. 100 mA
Voltage drop	U _d ≤ 1.5 V DC
Switching frequency	f 62.5 Hz
Response time	8 ms
Ambient conditions	
Ambient temperature	-40 ... 60 °C (-40 ... 140 °F) , fixed -20 ... 60 °C (-4 ... 140 °F) , movable
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	90 % , noncondensing
Mechanical specifications	
Protection degree	IP67
Connection	7 m fixed cable Receiver: grey ; Emitter: black
Material	
Housing	PC , black
Optical face	Plastic pane
Mass	approx. 100 g per device
Compliance with standards and directives	
Directive conformity	
EMC Directive 2004/108/EC	EN 60947-5-2
Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007
Protection degree	IEC 60529:2001
Approvals and certificates	
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

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