

1. Specification CRAT20-11/11

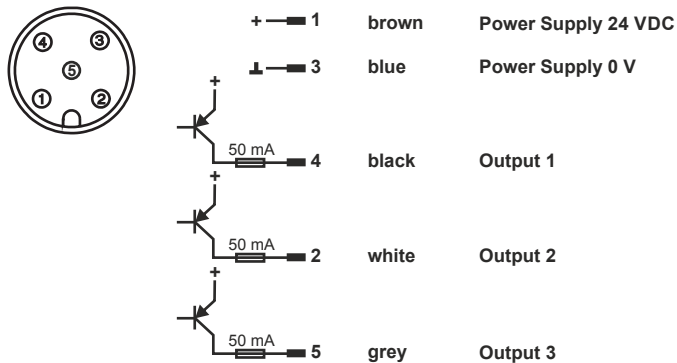
Mechanical Design:

Weight	approx. 0,62 kg
Material	Lower Housing Section: ALg, black anodized Housing Cover: POM-Plastic black colored
Protection Class	IP 67
Housing Dimensions	100 x 100 x 42 mm
Mounting Drillings/Housing Back Side	4 X M4-Tread, 10mm deep, quadratically arranged: 82 x 82 mm

Electrical Design:

Supply Voltage	10 - 30VDC
Current Consumption	typ. 135 mA, plus current for the Open-Collector-Outputs
Output	3 Open-Collector-Outputs with each 50mA
Connection	5-pin Connector M12x1, RSF4 compatible
Sending Frequency	24.000 24.250 GHz
Transmitting Power	< 20dBm (EIRP) max.
Antenna Characteristics	11° (±5,5°) vertical und horizontal
Distance Detection	0,2m Threshold (in 1m steps from 2 - 40m adjustable) - target size 2mx2m - a minimum speed from 3m/min is required
Response Time	< 50 ms
Hold Time of the Outputs	ca. 0,1 1 sec depending of Object Dimensions
Readiness delay after power on	approx. 1 sec
Operating Temperature	-40 +85 °C
Storage Temperature	-40 +85 °C

Connection Diagramm:



Standard Conformity:

- Radio Standard ETSI EN 300440
- EMV-Testing ETSI EN301 489-3 particular EN 55022, EN/IEC 61000-4-3, EN/IEC 61000-4-6, EN/IEC 61000-4-4, EN/IEC 61000-4-2, EN/IEC 61000-4-5, EN/IEC 61000-4-11
- Safety Testing EN 60950-1

Typical Antenna Characteristics/ Beam Pattern:

- 11x11 horizontal and vertical equal
- sensitivity 20dB,
- target: metal plate 50x50cm

