

# Radar Ranger

## CRAT20-5/14ST

### NARROW BEAM DETECTION



Narrow 5° x 14° beam angle.  
100m range.

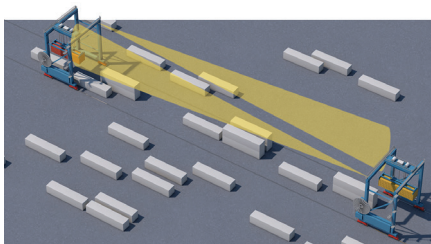
Detects moving or stationary objects  
3 Programmable warning outputs  
Robust design ideal for harsh environments  
Not affected by rain, snow or fog

The CRAT20 scanners are FMCW (Frequency Modulated Continuous Wave) radar scanners designed to detect objects in a specified area. With 3 programmable distance outputs and wide or narrow angle beam patterns, the robust CRAT20 are designed for harsh environments. Reliable in all weather, they can detect objects up to 100 metres away.

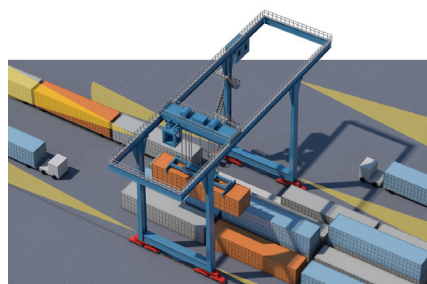
CRAT20-5/14 are long range ultra narrow beam radar scanners developed for anti-collision and start up protection of fast moving Straddle Carriers, RTGC, RMGC, STS and OHBC cranes. With a narrow beam and up to 60 metre range, these compact, robust units can also be used as Rail and Fork truck anti-collision warning, helping to protect vehicles, cranes and infrastructure in busy areas.

Radar Ranger scanners, are the perfect partner to help avoid collisions and minimise costly down time.

High speed ARMG



High speed RMG crane



Model Number	CRAT20-5/14ST	CRAT20-5/14ST 60M	CRAT20-5/14ST 100m
Range	40m	60m	100m
Beam angle	5° x 14° 5° (±2,5°, ±14°)		
Moving/ Stationary	Moving or stationary		
Supply voltage	24 VDC +/- 20%		
Current consumption	typ. 130 mA, plus current for the Open-Collector-Output		
Output	3 Open-Collector-Outputs with 50mA		
Connection	3-pin Connector M12x1, RSF4 compatible		
Sending frequency	24.000 .... 24.250 GHz		
Antenna characteristics	5° (±2,5°) horizontal and 28° (±14°)vertical		
Distance detection	up to 40m (in 1m steps from 4 - 40m adjustable)		
Operating/ storage temp.	-40 .... +85 °C		
Weight	approx. 1.05kg		
Material	Lower housing section: ALg, black anodised Housing cover: POM-plastic black colored		
Protection class	IP67		
Housing dimensions	188 x 110 x 42mm		

For more information:

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