








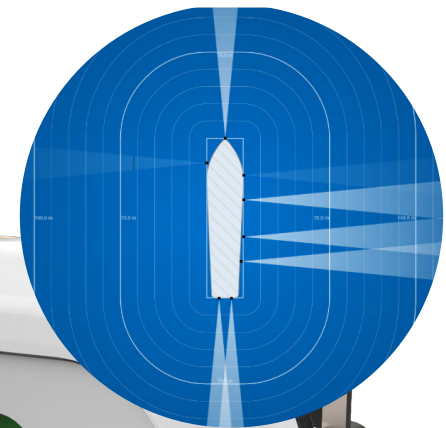
RANGEGUARD

TARGETLESS PROXIMITY SENSOR




RangeGuard measures the **distance to the nearest object**. Based on radar technology, it is a plug and play **proximity sensor** detecting unseen objects. With the size of today's vessels, more variable crew skills and greater bridge complexity - Hazard Detection is essential.

BENEFITS

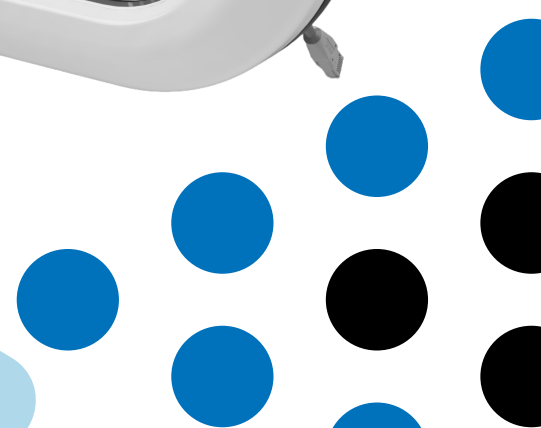
-  Detects objects within 300m of vessel
-  Safer manoeuvring in tight spaces, docking and ship to ship
-  Targetless operation and faster turnaround time (no target handover required)
-  Solid state - no moving parts
-  Spot or flood beam width options



APPLICATIONS

-  Platform, offshore and supply vessel operations
-  Tugboats
-  Salvage vessels

RangeGuard is also suitable for mobile structures such as **ship-to-ship** transfers, **super yachts** and **docking**.



RANGEGUARD SPECIFICATIONS

Sensor Details

Transceiver Type	Frequency Modulated Continuous Wave (FMCW)
Frequency Band	24.05GHz - 24.25GHz (License Exempt Short Range Device)
Maximum Power Output	<100mW EIRP
Maximum Operating Range	300m
Minimum Operating Range	1m
Range Accuracy	+2cm + 0.1% of Range
Azimuth Beam Width	110 (flood) or 11 (spot) 10dB Width
Target Detection	Automatic or by manual selection
Vertical Beam Height	+/- 5.5°

Vessel Interface

Sensor Power	85 to 264VAC 50-60Hz 5A, Max 114W
Sensor Control	Sensor Control capable of displaying 8 sensors simultaneously
Control Interface	Ethernet

Environmental

Operating Temperature Range	-25°C to +55°C
Atmospheric Conditions	Operates in fog, heavy rain, snow and ice conditions
Standards Compliance	EN 60945, FCC Approved
Ingress Protection Rating	IP67
RF Immunity	Resistant to S and X band radar when installed as recommended

Sensor Weight & Dimensions

Height	285mm
Width	170mm
Depth	120mm
Weight	4kg
Max cable run per sensor	Up to 100m (CATse SCTP cable, Min AWG 24)



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