

# Safety Technology from

**SICK**  
Sensor Intelligence.

Horizontal area monitoring for mobile platforms and robotics

Vertical access protection for safe material flow

Horizontal area monitoring for outdoor mobile platforms and passenger boarding bridges



2D LiDAR

3D ToF  
(Time of Flight)



3D collision protection for mobile robots

3D protection for collaborative robots

3D contour detection fields for cliff detection

Access detection in harsh environments (wood, paper, plastic, etc.)

3D area monitoring for restart prevention

Useful for rail, crane, and other outdoor applications



Radar



Field of View & Protective Field Range	275° horizontal  ≤ 9 m	68° x 42°  ≤ 4 m	100° x 20°  ≤ 5 m
Object Resolutions	Hand, Leg & Body 	Hand, Arm, Leg & Body 	Body 
Performance Level	SIL2, Category 3 <b>d</b> (safety rating)	SIL1, Category 2 <b>c</b> (safety rating)	SIL2, Category 3 <b>d</b> (safety rating)
Configurable Fields	128 total (up to 8 simultaneous) 	24 total (up to 2 simultaneous) 	24 total (up to 4 simultaneous) 
Control System Integration	 PROFsafe EtherCAT EFI-pro CIP Safety	 PROFsafe EtherCAT	 PROFsafe
Measurement Data	Yes, up to 64 m via TCP or UDP	Yes, up to 16 m via UDP	Detection Only

## Additional 2D LiDAR Products

- 3 m protective range, 275° FoV
- 128 configurable fields and monitoring cases
- Integration via I/O, EtherNet/IP™, CIP Safety™, or EFI-pro
- Cat. 3, SIL2, and PLd
- Compact size 106.6 mm x 80 mm x 117.5 mm



- Solid-state LiDAR with 150° FoV
- 1.1 m protective range (4 m warning)
- Digital I/O or CANopen/CANopen Safety
- Cat. 2, SIL1, PLC
- NFC and SICK Safety Assistant compatibility

