Smart Proximity Detection System

SOLUTIONS
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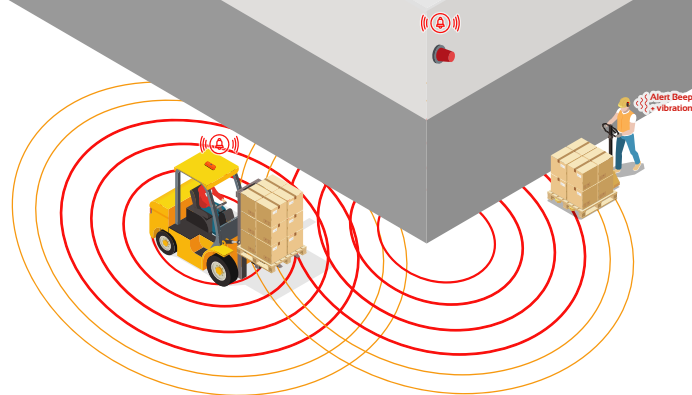
Overview:

Laserglow's Smart Proximity Detection System (SPDS) is an intelligent proximity alert safety system that prevents collisions by alerting the operator of danger using 2 way communication to both drivers and pedestrians. This includes when a pedestrian approaches a vehicle or when a vehicle approaches another vehicle. It is easy to install without causing any damage to vehicles, and features industry leading proximity detection technology.
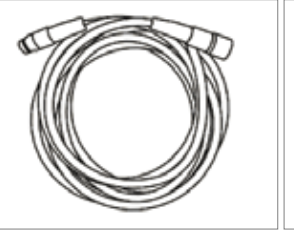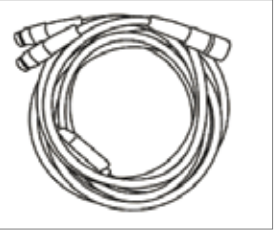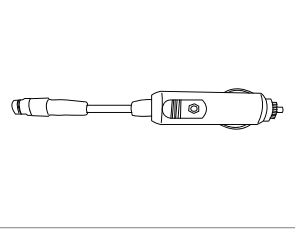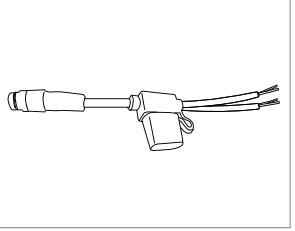
Advantages of the SPDS System:

- **High Accuracy**
  UWB technology-based highly accurate distance measurement. Can detect multiple pedestrians or vehicles at the same time.

- **OEM-independent**
  SPDS is OEM-independent, so it is ideal for mixed fleets. Can be fitted to new forklift trucks or retrofitted on your existing fleet.

- **Easy Installation**
  Out-of-the-box with no-registration and no-calibration.

- **Easy Operation**
  Simple and customizable configuration and operation.

- **Bilateral Alarm**
  Acoustic or vibrated alarm for both a driver and a pedestrian.

- **Configurable Warning / Detection Zones**
  Different alert zones for vehicle to vehicle interaction versus vehicle to pedestrian interaction.

Smart Proximity Detection System

Specification	Vehicle Tag (VT)	Vehicle Indicator (VI)	Pedestrian Tag (PT)	Flashing Vehicle Beacon
Product Image				
Input Voltage	12/24 V DC (9-32 V DC)	12/24 V DC (9-32 V DC)	-	12/24 V DC (9-32 V DC)
Current Draw	300 mA	500 mA	-	500 mA
Interface	CAN Bus 2.0	CAN Bus 2.0	-	CAN Bus 2.0
Alert Method	Red/green LED Flashing	Red/green LED flashing + spoken warning	Vibration, audible alarm, or both	Flashing LED beacon + audible alarm
Sound Level @ Distance	-	92 dB @ 10 cm	87 dB @ 10 cm	88 dB @ 1 meter
Battery	-	-	950 mAh Lithium polymer	-
Charging Interface	-	-	USB Micro-B (5V/1A)	-
Charge Time	-	-	~1.5 hours	-
Charge Current	-	-	850 mA	-
Operating Time	-	-	6 days (at 8 hours/day)	-
Size	177.8 x 84.1 x 86 mm	93 x 130.5 x 47.5 mm	40 x 72 x 19.5 mm	123 x 141 x 112 mm
Weight	444 g	207 g	58.5 g	484 g
Mounting Style	Magnetic or zip ties	Screws/bolts or double-sided tape	Helmet clip or arm band	Magnetic
Operating Temperature	-30 to 85 °C	-30 to 85 °C	-20 to 55 °C	-30 to 85 °C
Storage Temperature	-40 to 85 °C	-40 to 85 °C	-20 to 55 °C	-40 to 85 °C
Waterproofing	IP65	IP65	Water resistant	IP65
Available Colors	-	-	-	Red or Amber
Standard Warranty	12 months	12 months	12 months	12 months

Accessories:

Helmet Clip	Armband	External Output Device	Extension Cable	Cable Harness
Attach Pedestrian Tag to hardhat or helmet	Attach Pedestrian Tag to arm of user	Attach additional devices to be activated or triggered by SPDS devices	Increase distance between connected devices or between devices and power source	Attach multiple devices together on the same vehicle (supported devices: Vehicle Tag, Vehicle Indicator, Flashing Vehicle Beacon, External Output Device)

Cigarette Lighter Adapter	Open Wire Adapter Cable
Connect SPDS devices to vehicle power	Connect SPDS devices directly to vehicle battery or power system

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