

# Safe-E-Stop™

Stop Anything. Anytime. Anywhere.



## SIL3 RATED WIRELESS E-STOP SOLUTION

### HIGHLIGHTS

- Effective way to retrofit existing infrastructure
- Convenient, hip-carried unit
- Split second response
- No searching for hard-wired E-stop
- Multiple people may observe processes
- Simple programming via Bluetooth® configuration interface

### FEATURES

- More than a 100 m operating range
- Long battery life, rapid charge
- Up to five PSDs can be linked to the MSD (patent pending for link/de-link process)
- Easy interfaces to most machines
- Rugged housing for reliable use in tough environments, different colors available
- RJ45 ethernet port for diagnostics (EtherNet/IP or PROFINET)

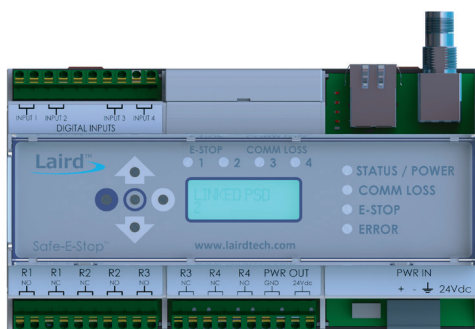
### APPLICATIONS

Can be used to supplement any hard-wired E-Stop system

- Processing and machining
- Risk reduction management
- Flexible manufacturing
- Cranes & conveyor systems
- High speed production lines
- Distribution centers
- Water treatment plants

### COMPLIANCE

- CE / RED
- IEC 61508 SIL 3 Comm loss function, TÜV NORD certified
- IEC 61508 SC 3 E-Stop function, TÜV NORD certified
- ISO 13850
- UL508 / CSA22.2 #14 Electrical Safety recognized Intertek
- Licensed as well as unlicensed frequency options available



Safe-E-Stop MSD



Safe-E-Stop PSD

## TECHNICAL DATA AND SPECIFICATIONS

### ELECTRONIC DATA

Functions	E-Stop, Link (activate), Unlink (deactivate) and two-step permissive functions
Digital circuitry	Dual-processor self-monitoring safety technology
Response time E-Stop	320 mS typical
Communications	Black Channel secured
MSD supply voltage	24 VDC (18–36 VDC), 1 A max. Optional: 85–264 VAC, 47–63 Hz, 1 A
PSD battery	Rechargeable Li-ion battery >14 h at 20° C 3 hour re-charge
Relay outputs	150 VAC/VDC, 10 mA minimum to 6 A maximum resistive load, overvoltage category II according to IEC 60364
Ethernet Port (not safety rated)	Two-step permissive function and full diagnostic data, available as Ethernet/IP or PROFINET
EMC	- EN 301 489-3 V2.1.1 - EN 55032: Class A - EN 61000-4-2: Level II - EN 61000-4-3: 30 V/m  PSD additionally - EN 61000-4-5:2006 - EN 61000-4-4: Level III

### RF & ANTENNA

Frequency range & power	433-434 MHz @ 5 mW 450-470 MHz @ 10 mW 902-928 MHz @ 1 mW
Antenna	PSD: Internal, MSD: External

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### MECHANICAL DATA

	PSD	MSD
Dimensions L x W x H	138 x 65 x 54 mm (5.4 x 2.6 x 2.1 in)	162 x 109 x 61 mm (6.4 x 4.3 x 2.4 in)
Weight	Approx. 200 g (8 oz.)	
Housing	High-impact polymer and rubber bumper  IP67 (outdoor use)	Polymer  IP30*  * additional NEMA4x enclosure optionally available
Operating temperature	-20° to 60° C (-4° to 140° F)	-20° to 60° C (-4° to 140° F)
Charging temperature	0° to 40° C (32° to 104° F)	
Shock	IEC60068-2-27	IEC60068-2-27
Vibration	IEC60068-2-6	IEC60068-2-6 IEC60068-2-64
Free Fall	IEC60068-2-31	
Humidity	RH 10-95 % non-condensing Class 2	
Altitude	<2000 m	
Environment	Pollution degree 3	Pollution degree 2

### INDICATION

LEDs	4 operational status	4 operational status 4 safety relay status
LCD	Status reporting	Status reporting
Haptic alerts (PSD only)	Low battery, low RF signal, comm-loss, E-stop activated	

### OPERATING ELEMENTS & CONTROL FUNCTIONS

E-Stop switch	Dual force guided contacts	
Control elements	1 dual-step permissive, 1 request to link, 1 request to unlink	

### ACCESSORIES

Mounting	PSD: Ergonomic belt clip MSD: DIN rail mount ready	
Battery charger	Processor-controlled 3-hour fast charger; 1 and 6 bay versions available	