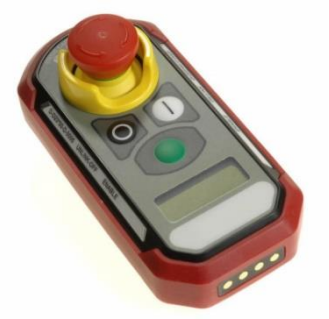
SATEC

SAFE E STOP



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

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)
- Available in Red, Yellow, Blue, Green and Black

APPLICATIONS

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

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

COMPLIANCE

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

SATEC

TECHNICAL DATA AND SPECIFICATIONS – SAFE E STOP

ELECTRONIC DATA

Functions	Safe-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

Frequency Range & Power	433-434 MHz @ 10 mW ERP 450-470 MHz @ 10 mW 902-928 MHz @ 1 mW
Antenna	PSD: Internal, MSD: External

CONTROL ELEMENTS

Safe-E-Stop Switch	Dual force guided contacts
Control	1 dual-step permissive, 1 request to link

MECHANICAL DATA

	PSD	MSD
Weight approx..	200 g 8 oz.	445 g 15.7 oz.
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)
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	Low battery, low RF signal, comm-loss, Safe-E-Stop activated	

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