

IMPORTANT NOTE:

Read and understand these instructions before installing, operating, or maintaining this equipment.

The product is designed to be a component of a customised safety orientated control system. It is the responsibility of the user to ensure the correct overall functionality of its systems and machines. IDEM, its subsidiaries and affiliates, are not in a position to guarantee all of the characteristics of a given system or product not designed by IDEM.

Application:

Emergency Stop Switches are mounted on machines and sections of plant conveyors that cannot be protected by quards. In combination with any dual channel safety monitoring controllers these switches can be used as emergency stop devices and monitored for up to Category 4/PLe to ISO13849-1.

Operation:

All Emergency Stop Switches conform to European Standard EN ISO 13850 and IEC 60947-5-5. They have a positive mechanical linkage between the switch contacts and the E-Stop Button. The switches are mechanically latched and can then only be returned to the operational condition by a pressing the reset button as required by EN ISO 13850 and IEC 60947-5-5.

Installation Guide:

1. Installation of all switches must be in accordance with a risk assessment for the individual application and in accordance with local wiring regulations and EN60204-1. Installation must only be carried out by competent personnel and in accordance with these instructions.

2. M4 mounting bolts must be used to fix the switches. Tightening torque for mounting bolts to ensure reliable fixing is 4 Nm. Tightening torque for the lid screws, conduit entry plugs and cable glands must be 1.5 Nm to ensure IP seal. Only use the correct size gland for the conduit entry and cable outside diameter.

3. Check operation of all switches and the control circuits by activating the switch (depress the Red Button) and resetting each switch by twisting the Red Button. Ensure each time that the switches latch off and require manual resetting.

4. For versions with the Protection Shroud ensure that the padlock size is suitable to prevent re-setting of the button.

Maintenance:		Standards:	IEC 60947-5-5 UL508 EN ISO 13850
Every Month:	Check correct operation of the control circuits and latching mechanism. Inspect for damage to the E Stop button or casing. Replace any switch displaying damage		Stainless Steel 316 or Plastic IEC 60947-5-1 Double break Type Zb
Every 6 Months:	Isolate power and remove cover. Check screw terminal tightness and check for signs of moisture ingress. Never attempt to repair any switch.	Contact Material Termination Rating	Silver Clamp up to 2.5 sq. mm conductors Utilisation Category : AC15
		Operational Rating	AC15 A300 240V. 3A /120V 6A. ac
LED Wiring examples (if fitted): Black (or Terminal 2) is 0V (or Neutral for 110V and 230V ac versions).		Thermal Current (Ith)	10A.
		Rated Insulation Voltage (Ui)	500V.
		Withstand Voltage (Llimp)	25001/

NC

When power is applied to the Red wire (or Terminal 1), the LED will illuminate Red. When power is applied to the Green wire (or Terminal 3), the LED will illuminate Green.

LED has 2 colours

Recommended Colour Usage: LED Red- Stopped LED Green – Run

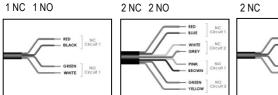
Terminal 1 or Red Terminal 3 or Green



Terminal 2 or Black

Wiring circuits for Explosion Proof Versions:

1 NC 1 NO



Withstand Voltage (Uimp) Short Circuit Overload Protection **Operating Temperature Enclosure Protection**

Optional Explosion Proof Contact Block: Туре

Classification Rated Voltage Rated Current

Safety Classification and Reliability Data: Mechanical Reliability B10d ISO 13849-1 EN 62061 Safety Data - Annual Usage

2500V Fuse Externally 10A. (FF) -25C / 80C

IP67 Plastic or IP69K Stainless Steel (NEMA 6)

IDEM LS-EX internal switch Ex d IIC T6 (-20C Ta 60C) Gb Ex tb IIIC T85C (-20C Ta 60C) Db 250V ac/dc 2 pole 4A. 4 pole 2.5A

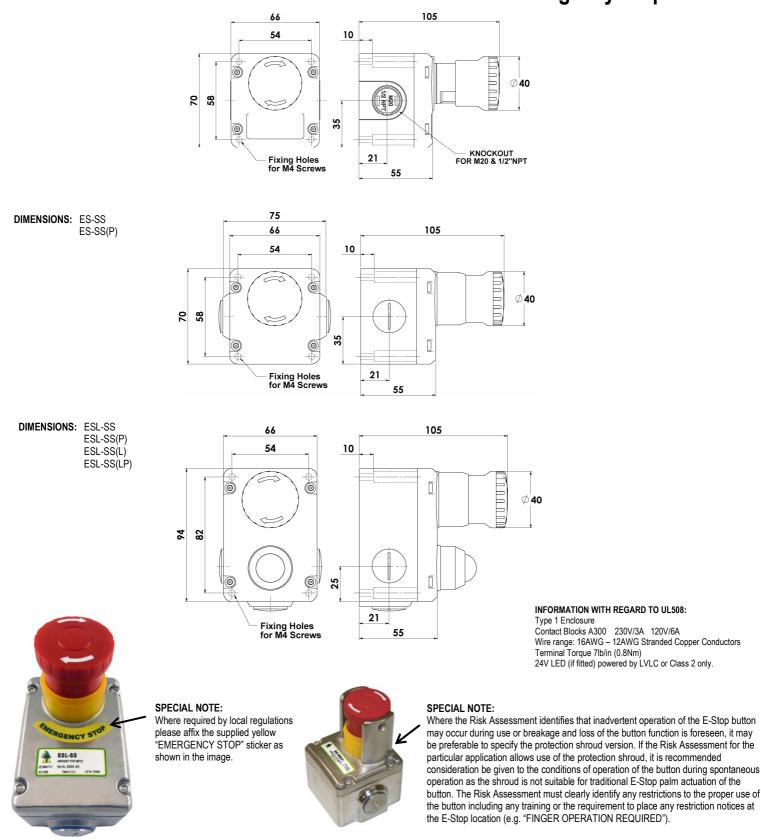
1.5 x 10⁶ operations at 100mA load up to PLe depending upon system architecture up to SIL3 depending upon system architecture 8 cycles per hour / 24 hours per day / 365 days MTTFd 214 years

IMPORTANT-

SPECIFIC CONDITIONS OF USE FOR EX VERSIONS: THE INTEGRAL CABLE SHALL BE SUITABLY PROTECTED FROM PHYSICAL DAMAGE AND ABRASION. THE INTEGRAL CABLE IS TO BE TERMINATED IN A SUITABLE TERMINAL FACILITY.



Emergency Stop Switches



WARNING: DO NOT DEFEAT, TAMPER, OR BYPASS THE SAFETY FUNCTION. FAILURE TO DO SO CAN RESULT IN DEATH OR SERIOUS INJURY.

AVERTISSMENT: NE PAS DESACTIVER, MODIFIER, RETIRER, OU CONTOURNER CETI INTERVERROUILLAGE IL PEUT EN RESULTER DES BLESSURES GRAVES DU PERSONNEL UTILISATEUR.

Original Instructions.

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