

Two-Hand Control Stations - TouchSafe

FEATURES & APPLICATIONS:



IDEM two-hand control stations are designed to satisfy the requirements of ISO13851. The TouchSafe stations are intended for use as part of a two-hand control system for powered machinery.

The two-hand control station is permanently situated a specified distance away from the hazard and confirms the operators position such that the machine function will stop or start with the hazard out of reach of the operator.

- Robust die-cast metal construction.
- IP65 construction.
- Facility to fit 22mm auxiliary, E-Stop buttons, or diagnostic lamps.
- Various wiring entry points.

The MF and ZF buttons are designed to be operated by hand to maintain electrical outputs to a control circuit whilst direct hand contact is maintained.

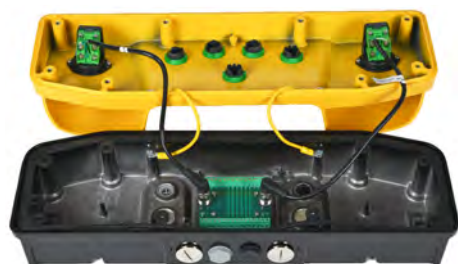
The MF version is a spring-loaded button requiring mechanical operation by depressing and holding down the button.

The ZF version is electronic and senses an operator's hand for proximity.

When fitted to the control housing and monitored by an external controller they satisfy the requirements to detect an operator's position relative to a machine control function, (see ISO13851) i.e., Prevention of defeat using one hand - the separation of the control actuating devices by at least 260 mm (internal dimension).

Prevention of defeat using the hand and elbow of the same arm –the shielding and separation of the control actuating devices by at least 550 mm (internal dimension).

To satisfy the measures to prevent defeat by using other parts of the body (e.g., knee, hip) in conjunction with one hand, the control actuating devices (buttons) should be on a horizontal or nearly horizontal surface

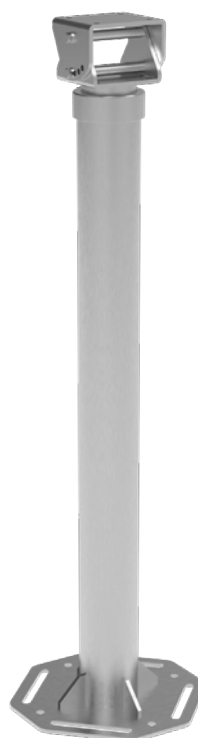


Simple connectivity via internal PCB with terminals and M12 connectors for MF or ZF buttons..

ORDERING:

Sales No.	Sales Description
240000	Two-hand control - housing only (Die-Cast painted yellow)
240001	Two-hand control station (Die-Cast painted yellow) fitted with 2 x ZF buttons
240002	Two-hand control station (Die-Cast painted yellow) fitted with 2 x MF buttons
240021	Two-hand control button only - Type ZF
240022	Two-hand control button only - Type MF
240050	Adjustable Two-hand control floor mount stand
180030	SCR2H Control relay Type IIIC 24V.dc supply
180031	SCR2H Control relay Type IIIC 230V.ac supply
180032	SCR2H Control relay Type IIIC 110V.ac supply
522401	Pilot light Yellow 24V. ac/dc (fit at installation)
522402	Pilot light Red 24V. ac/dc (fit at installation)
522403	Pilot light Green 24V. ac/dc (fit at installation)
522404	Pilot light Blue 24V. ac/dc (fit at installation)
522201	E Stop 2NC 30mm mushroom head (fit at installation)
522202	E Stop 1NC 1NO 30mm mushroom head (fit at installation)
522203	E Stop 2NC 30mm mushroom with reset key (fit at installation)
522204	E Stop 1NC 1NO 30mm mushroom with reset key (fit at installation)

Adjustable Floor Mount



22mm Pilot Devices



SCR-2H Safety Relay



Two-Hand Control Stations - TouchSafe

Type MF buttons (Spring Return Loaded):



NC - Terminals 11/12
NO - Terminals 23/24

Quick Connect (QC) M12 5-pin Male Plug on 300 mm flying lead	
Pin view from Switch	
1	Not used
2 (White)	NC Contact
3	Not used
4 (Black)	NO Contact
5 (Grey)	Common

Type ZF buttons (Zero Force Actuation):



Quick Connect (QC) M12 5-pin Male Plug on 300 mm flying lead	
Pin view from Switch	
1	+24V.dc
2	NC Contact
3	0V.dc
4	NO Contact
5	Common

MF TECHNICAL SPECIFICATIONS:

Technical Specification Type MF	
Insulating housing	Polyester
Operating Temperature	-20C. to +40C
Mechanical Life (B10d)	1,000,000 cycles
Output Contacts	Rated 240V. 3A. (A300)
Operating Force	20N

IP65 capability when fitted to 2 Hand Control Housing

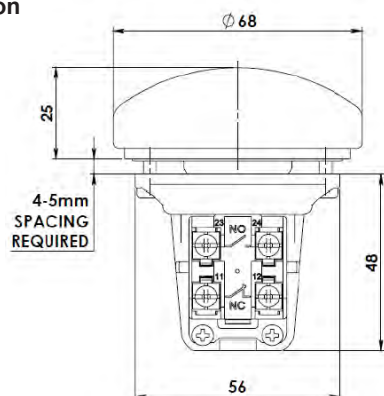
ZF TECHNICAL SPECIFICATIONS:

Technical Specification Type ZF	
Insulating housing	Polyester
Operating Temperature	-20C. to +40C
Operating Voltage	24V.dc (+/- 10%)
Power Supply	SELV / PELV
Output Circuits	Rated 24V.dc 0.1A
Operating Force	Zero
LED	Green – activated Red – waiting

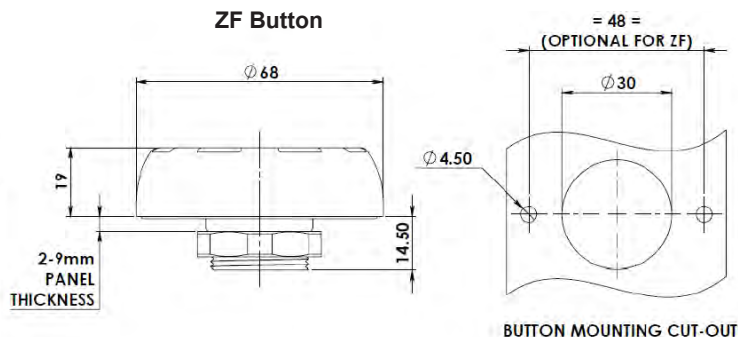
IP65 capability when fitted to 2 Hand Control Housing

DIMENSIONS:

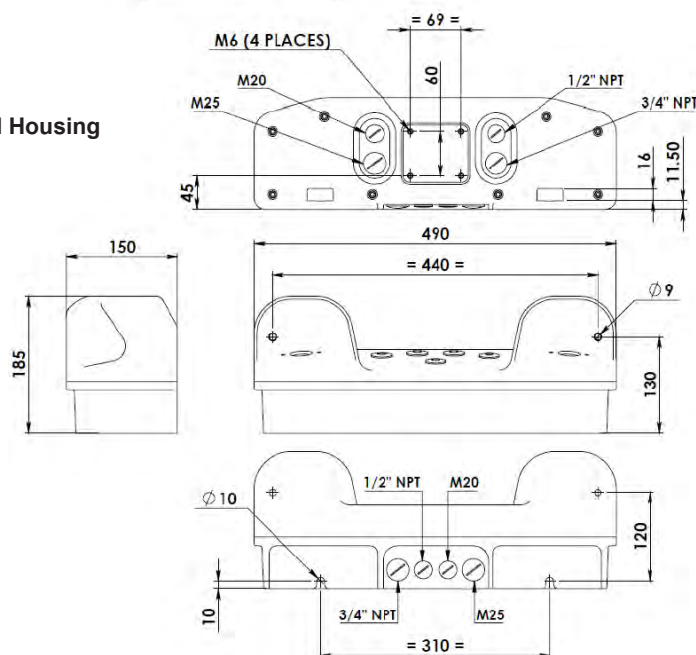
MF Button



ZF Button



Control Housing



Adjustable Stand

