IDEM Mechanical Pushbutton For Two-Hand Control





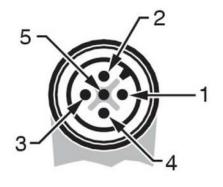
The IDEM Mechanical Pushbutton is a mechanically activated pushbutton with 1 NO and 1 NC set of contacts. This pushbutton was designed for use with any two-hand control system. This pushbutton is supplied with a 250mm [9.84 in] flying lead with a 5-pin M12 male plug. The plug makes it easy to connect to the PCB connection board which is part of IDEM's two-hand control stations.

For systems with frequent operational use, Zero Force touch switches (<u>2H-240021</u>) are recommended for more ergonomic operation.

IDEM Mechanical Pushbutton				
Part Number	<u>2H-240022</u>			
Price	\$;05xf7:			
Description	IDEM pushbutton, IP65, 30mm, momentary, (1) N.O./(1) N.C. contact(s), black, mushroom, 68mm, round			
Mounting Diameter	30mm [1.18 in]			
Actuating Stroke	3mm [0.12 in]			
Pushbutton Material	Polyester			
Front Panel Thickness	4 to 5 mm [0.16 to 0.20 in]			
Weight	177g [0.39 lb]			
Mounting Screws Tightening Torque	1.0 N•m [0.74 lb•ft]			
Terminal Tightening Torque	0.8 N•m [0.58 lb•ft]			
Ambient Temperature	-20°C to +40°C [-4°F to +104°F]			
Ingress Protection Rating	IP65			
Mechanical Life	1,000,000 operations			
Standards	ISO 13851; UL File E258676			
Drawing	PDF			

Cable Connections

5-Pin M12 Connections		
1	Not used	
2 (white)	NC contact	
3	Not used	
4 (black)	NO contact	
5 (gray)	Common	



Note: The product ships with a jumper between the NO contact and the NC contact so that the common signal can be used for both the NC and the NO contact.



IDEM TouchSafe Two-Hand Control Panels are an all-in-one-box solution that is ergonomic, easy to set up, and easy to use. These panels take the guesswork out of two-hand pushbutton spacing and provide straightforward mounting options.



Applications

Two-hand control panels are designed for use in combination with a two-hand control monitoring device and require an operator to use both hands at the same time when initiating a hazardous operation. This forces operators to have their hands on the twohand control actuator elements and out of the danger zone while the system is actuated.

Safety Design

These panels are designed with guard hoods over the actuator elements, which prevent individuals from circumventing the protection function using just one hand or other body parts. For additional safety, these two-hand control panels have been designed so that it is not possible to operate them from the back side of a panel. The two-hand control station is a complementary device designed to ensure that the operator's hands remain away from a hazard. Additional safety measures – for example, guarding – may be needed to ensure operator safety.



Features

- Pre-installed two-hand pushbuttons for ease of installation
- Five additional pre-drilled M22 holes (ships with hole covers installed)
- Ergonomic operation
- Two-part enclosure
- Die-cast aluminum enclosure
- Ability to be wall mounted
- Guard hoods over the actuator elements
- Safety yellow and black finish
- Optional empty enclosure
- Convenient terminal block inside the enclosure



IDEM Two-Hand Control Panel Selection Guide						
Part Number	Price	Type of Pushbutton	Pushbutton Contacts	Ingress Protection	Weight (kg [lb])	Drawing
Control Panel Versions With Pushbuttons						
		Control Panel Ve	rsions with Pushbuttons			
<u>2H-240001</u>	\$;05xfa:	Zero Force touch switch with LED indication	2 (1 NO, 1 NC)	IP65	5.4 [11.92]	PDF

Control Panel Without Pushbuttons Selection Guide						
Part Number	Price	Type of Pushbutton	Pushbutton Contacts	Ingress Protection	Weight (kg [lb])	Drawing
<u>2H-240000</u>	\$;05xf9:	Aluminum die-cast, powder coated	Two 30mm holes (for two-hand control buttons) and five 22mm holes for additional buttons or lamps	IP65	5.2 [11.40]	PDF



IDEM TouchSafe Two-Hand Control Panels – Connections

The enclosure features an internal connection PCB. This board makes it very simple to change out a pubbutton or a light, reducing the overall cost of ownership. The PCB has two M12 5-pin connectors for connection to either of IDEM's pushbuttons (the <u>2H-240021</u> Zero Force pushbutton or the <u>2H-240022</u> mechanically activated pushbutton) for two-hand control. In addition, the board provides four V+ terminals, four V- terminals, and eight pairs of pass-through terminals for end-user use.

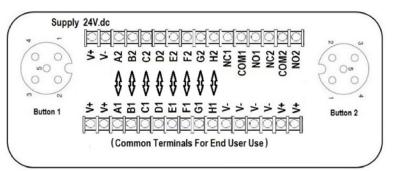
PCB Connections

IDEM TouchSafe Two Hand Control Panels PCB Terminals Wiring Connections

Top-Row Terminals			
Terminal	Connects to	Description	
V+	DC supply	Required when using Zero Force type buttons	
<i>v</i> -	DC supply	Required when using Zero Force type buttons	
NC1	Button 1	Normally closed (NC) circuit	
COM1	Button 1	Common	
NO1	Button 1	Normally open (NO) circuit	
NC2	Button 2	Normally closed (NC) circuit	
СОМ2	Button 2	Common	
NO2	Button 2	Normally open (NO) circuit	

Pass-Through Terminals			
Terminal	Connects to	Description	
A1	A2	Common connection for end user use	
B1	B2	Common connection for end user use	
C1	C2	Common connection for end user use	
D1	D2	Common connection for end user use	
E1	E2	Common connection for end user use	
F1	F2	Common connection for end user use	
G1	G2	Common connection for end user use	
H1	H2	Common connection for end user use	

Bottom-Row Common Terminals			
Terminal	Connects to	Description	
All V+	Internally connected	Common connection for end user use	
All V-	Internally connected	Common connection for end user use	



Safety Products



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