FORTRESS INTERLOCKS

pushbutton is used to initiate a stop function.

Operating Instructions: Emergency Stop Element



TEC, TED, TEW, TEV, TET, TEM, TEP, TEI, TES Description Emergency stop element, version available with either a monitoring contact or illumination. 2 positively driven force break Normally Closed contacts (uses none of the I/O pins). · Monitored version also has 1 output signal and this uses 1 output pin. Illuminated version also has 1 input signal and this uses 1 input pin (it is illuminated by the controlling PLC, not by the action of pressing the E-Stop). • It is not possible for an E-Stop to be both Monitored and TES is black version of TET Illuminated. · E-Stop is always mounted at the top of any control elements, and below solenoid / head / safety switches / locks. · TEM & TEI E-Stops can be positioned at the bottom of the stack if required. • TED/C/W/V contacts are wired in series with another element in the stack e.g. TSS, to reduce pin requirements. • TET/M/P/I/S contacts are wired separately to all other elements in the stack. TES is black version of TET. A Black Mushroom

Technical Specification			
Housing Materials	Painted die cast aluminium		
Colour	Red, Yellow & Dark Grey / Black		
Ingress Protection	IP65*		
Ambient Temperature	-25°C to 40°C (-13°F to 104°F)		
Environment	Indoor use only		
Operating Life	50,000 cycles		
B10	65,000 cycles		
B10d	130,000 cycles		
Switches Conformance	tches Conformance IEC 60947-5-1		
Switching Principle	Positive Break		
Switching Current	1mA MIN / 100mA MAX		
Switching Voltage	Voltage 24V		
*IP protection is to the tGard stack that this module attaches to, when correctly fitted according to installation and maintenance instructions.			

Safety Data		
Standards	EN13850	
Approvals	TÜV SÜD for Europe, Canada & USA	
B10	65,000 cycles	
Note: The safety-related parts of the control system or sub- with the relevant requirements of ISO-13849-1 and/or IEC (systems which perform the emergency stop function shall comply	

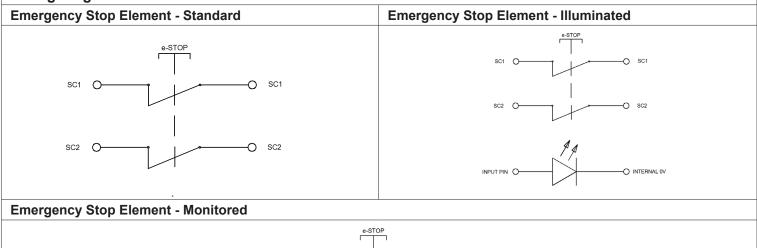
tGard Emergency Stop Safety Functions	Part No.
Safety Function 1 Provides E-Stop function	TEC / TED / TEW / TEV / TET / TEM / TEP / TEI / TES

Operating Instructions: Emergency Stop Element

Emergency Stop Part Number Options				
Part No.	Reset	Illuminated	Monitored	Wiring
TEC	Twist	-	-	Series
TED	Twist	-	Yes	Series
TEW	Pull	-	-	Series
TEV	Twist	Yes	-	Series
TET	Twist	-	-	Separate
TEM	Twist	-	Yes	Separate
TEP	Pull	-	-	Separate
TEI	Twist	Yes	-	Separate
TES	Twist	-	-	Separate

Electrical Guidance					
Part No.	Inputs	Outputs	Elements Operate on the Safety Circuits		
TEC	0	0	Series		
TED	0	1	Series		
TEW	0	0	Series		
TEV	1	0	Series		
TET	0	0	Separate		
TEM	0	1	Separate		
TEP	0	0	Separate		
TEI	1	0	Separate		
TES	0	0	Separate		

Wiring Diagrams -



SC1 O

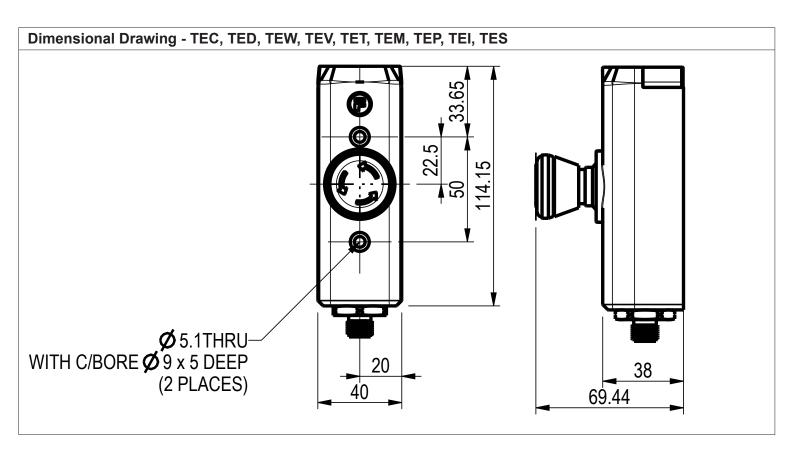
SC2 O

0

MONITOR OUTPUT -O SC1

-O sc2

-O INTERNAL 24V



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