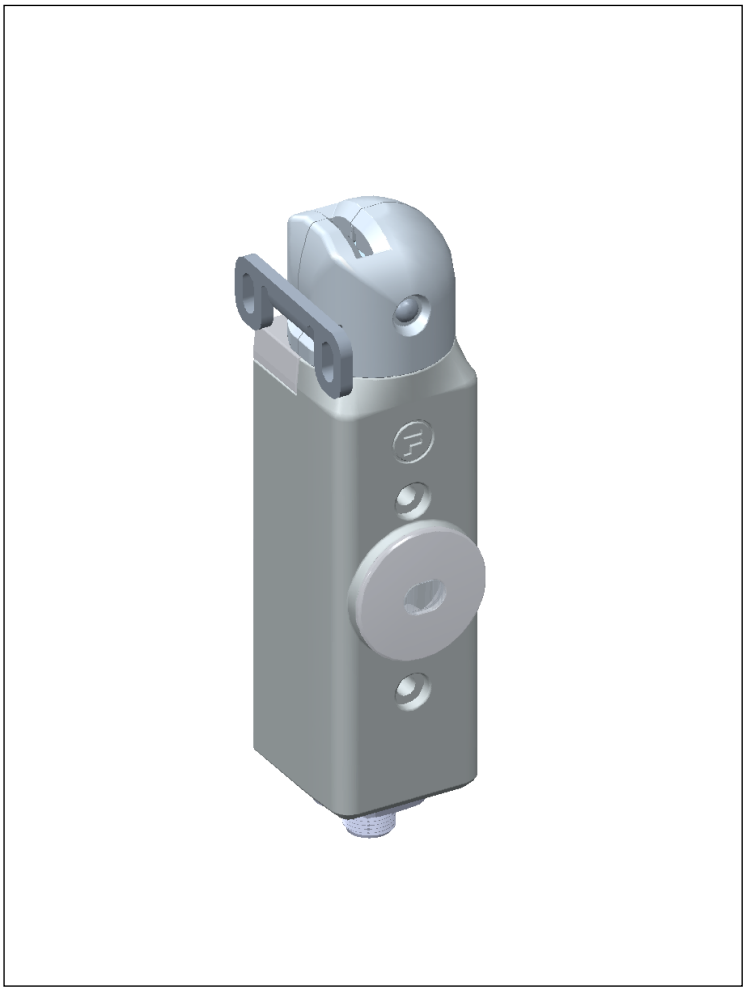
Datasheet for THFSMQ3



Breakdown List

Item number: ITM-00046932	
Part	Description
THF	Head module including fixed actuator
TSM	Safety Switch
TQ3	8 Pin M12 QD Safety & Control

Datasheet for THFSMQ3

Technical Specification

tGard offers "a customised safety solution, as standard" and is defined by a range of tGard elements, including selector switches, safety switches(solenoid and non solenoid), personnel keys(safety keys), emergency release, push buttons, estops, indicator lamps and a choice of operating handles for both hinged and sliding guard doors.These elements are simply selected and then assembled into a robust housing, suitable for mounting onto machine guarding, providing the user with an exact configuration specific to the application.
tGard is quick and easy to install and can be mounted directly onto a flat surface, doors or extruded aluminium profiles without the need for mounting plates or brackets. It is IP65 as standard and has been designed to be fully compliant with the new machinery safety standards.

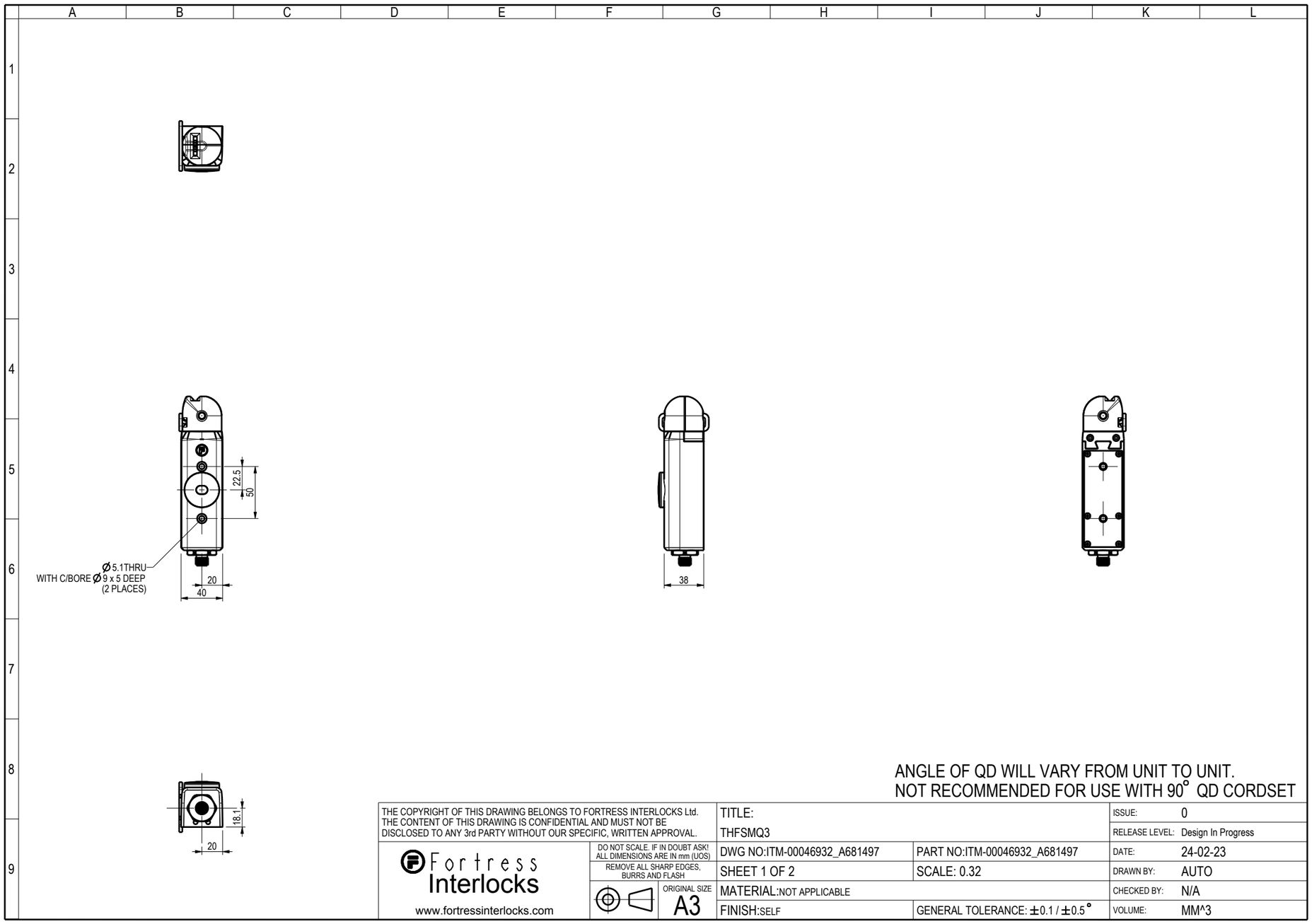
Technical Specification

Housing Materials	THF	Painted die cast zinc alloy
	TSM	Painted die cast aluminium
Contact Material	TSM	Silver
Colour	THF	Dark Grey
	TSM	
Ambient Temperature	-25°C to 40°C (-13°F to 104°F)	
Environment	THF	Indoor
	TSM	
	TQ3	
Ingress Protection	THF	IP65****
	TSM	
	TQ3	
Retention Force	THF	2500N
	TSM	7 - 9N (TSS/TSM) 38 - 40N (TSP)
Operating Force	THF	5N to 10N
Mechanical Life	THF	1,000,000 Operations
	TSM	
Maximum Frequency of Operations	THF	1 per second
	TSM	
Switching Contact Element	TSM	2 N/C on Safety Circuits 1 N/O per Monitor (TSM only)
Voltage	TSM	24V DC
	TQ3	
Safety Switch Type	TSM	DC13: Le=0.5A, Ue=24V DC AC15: Le=1A, Ue=24V AC
Min hinged door radius	THF	150mm (using TAH actuator handle)
Switching Principle	TSM	Positive Break
Max current on power supply	TQ3	0.75A

**** IP protection is to the tGard stack that this module attaches to, when correctly fitted according to installation and maintenance instructions.

Datasheet for THFSMQ3

Full Dimentional Drawing



Item	THFSMQ3

HEAD	1	2	3	4	5	6	7	8	9	10	Base
THF	SM										Q3

	Input	Output	2nd Output	SC1 in	SC2 in	SC1 out	SC2 out	SC3 in	SC4 in	SC3 out	SC4 out	SC5 in	SC6 in	SC5 out	SC6 out	+24V	0V	Earth
TSM	-	8	-	1	4	5	6	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TQ3																2	7	3

Note: 2nd Output = Anti Clock turn on 3 Pos. Switch
Note: ***** denotes safety element is wired in series to other safety elements

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Fortress Interlocks
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DO NOT SCALE. IF IN DOUBT ASK!
ALL DIMENSIONS ARE IN mm (UOS)
REMOVE ALL SHARP EDGES, BURRS AND FLASH

ORIGINAL SIZE A3

TITLE: WIRING TABLE FOR THFSMQ3

DWG NO:ITM-00046932_A681497 | PART NO:ITM-00046932_A681497
SHEET 2 OF 2 | SCALE: 0.32
MATERIAL:NOT APPLICABLE
FINISH:SELF | GENERAL TOLERANCE: ±0.1 / ±0.5°

ISSUE: 0
RELEASE LEVEL: Design In Progress
DATE: 24-02-23
DRAWN BY: AUTO
CHECKED BY: N/A
VOLUME: 0.000 MM^3