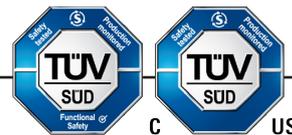


Operating Instructions: Safety & Access Lock & Keys



Core Elements

Description	TSN, TGN, TAB, TQB
<p>Safety & Access Lock Element</p> <ul style="list-style-type: none"> • Robust radial disc tumbler lock. • >5000 combinations. • 10 mastered combinations (can be used with all 5000 individual combinations). • No key included. • Max. No. of mechanical locks = 10. <p>Safety Lock - TSN, TGN</p> <ul style="list-style-type: none"> • Prevent closure of door and start up until key returned. <p>Access Lock - TAB, TQB</p> <ul style="list-style-type: none"> • Only allow access with correct key. <p>Location</p> <ul style="list-style-type: none"> • Safety Lock must be directly under head / cap (or under internal release element if one is fitted). • Access keys must be directly under safety locks (or under head or internal release if no safety locks). 	<p>Safety & Access Lock Elements shown in 2 way case with head.</p>

Description	TKS & TKM
<ul style="list-style-type: none"> • Standard TKS and Master TKM keys available. • Torque rating 10Nm. • High corrosive resistance. • Over 5,000 non-masterable combinations available. • TKS Keys are coded with 8 digits and can open SN, GN, AB, QB locks coded the same. • TKM Keys are coded with 8 letters and can open GN + QB locks coded with the master series. • 10 masterable combinations available. 	<p>2 lines of 9 characters</p>

It is the user's responsibility to implement proper management controls and risk assessment for master and spare keys, without which they can be used to defeat trapped key interlock systems; ISO/TS 19837 can offer further guidance.

tGard Access & Safety Lock Technical Specifications	
Housing Materials	Painted die cast aluminium
Colour	Dark Grey
Ingress Protection	IP65*
Operating Force	< 1Nm
Mechanical Life	1,000,000 Operations
Maximum Frequency of Ops	1 per second
Ambient Temperature	-25°C to 40°C (-13°F to 104°F)
Environment	Indoor use only
*IP protection is to the tGard stack that this module attaches to, when correctly fitted according to installation and maintenance instructions.	

Operating Instructions: Safety & Access Lock & Keys

tGard Keys Technical Specifications	
Key Material	Aluminium Bronze
B10d	5,000,000

tGard Safety & Access Lock Safety Functions		Part No.	
Safety Function 1	Does not allow safety contacts to be made unless safety key inserted in lock	TSN / TGN	TAB / TQB
Safety Function 2	Breaks safety contacts when access key inserted in lock		

tGard Safety & Access Lock Part Number Options	
Description	Part No.
Standard Safety Lock (no key)*	TSN
Master Safety Lock (no key)*	TGN
Standard Access Lock (no key)*	TAB
Master Access Lock (no key)*	TQB
*Keys Ordered Separately	

tGard Keys Part Number Options	
Description	Part No.
Standard Key	TKS
Master Key	TKM

Safety Data		
Standards	EN13849-1 EN13849-2 EN14119	
Approvals	TÜV SÜD for Europe, Canada & USA	
Category	Cat. 3, PLd (EN/ISO 13849-1)	
Functional Safety Data	B10d (for whole tGard device, which will contain multiple elements)	5,000,000

Figure 1: Dimensional Drawing - Safety & Access Lock

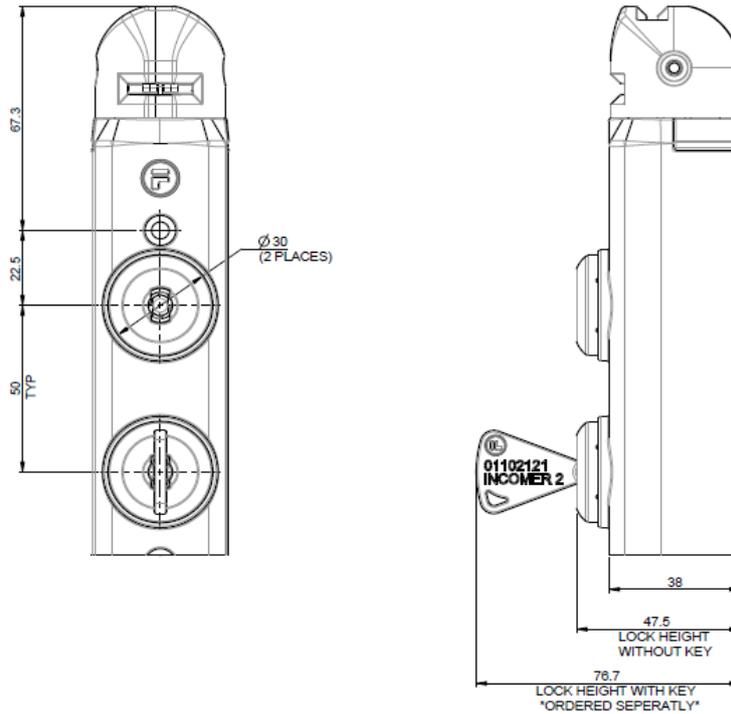


Figure 2: Dimensional Drawing - Key

