Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

FEATURES & APPLICATION:

Available as:
Die Cast metal painted red
or Stainless Steel 316.
4 Station model or
2 Station model.
Completely flexible - end user chooses buttons, lamps, switches options for each station.

Application:

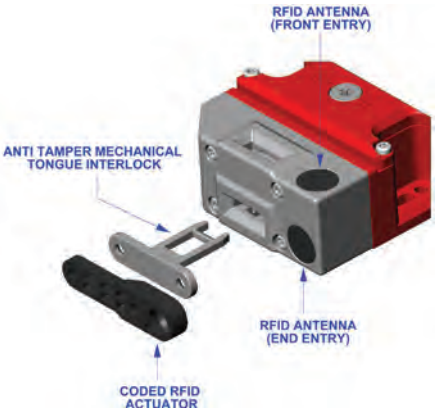
IDEM Universal Gate Boxes (UGB-KLT) provide high level RFID coded interlocking and machine control functions in one heavy duty housing. They can be easily fitted to access doors to provide guard locking, rear escape options and sliding or rotary handles.

They reduce the risk of operators being trapped inside a guarded area.

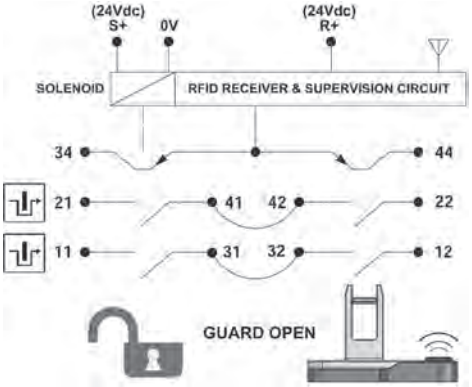
The UGB-KLT housings will incorporate standard 22mm push buttons, lamps or switches which can be added to provide machine request or control functions all from one UGB-KLT housing.

Features:

- Robust Safety Interlock switches with RFID and multifunction control features built into one housing.
- 2 or 4 station housing for incorporating wide choice of standard 22mm push buttons, lamps or switches.
- Optional sliding handle actuators or rotary handle actuators.
- Rear escape release options.
- Rotary one way rear escape handle (cannot be re-closed from inside the hazardous area).
- The built-in KLT switch has both anti-tamper RFID coding technology and standard mechanical interlock technology.
- 24Vdc solenoid to release lock.
- Built-in LED diagnostics of switch status and easy to read label legends.
- Easy to mount painted die-cast or Stainless Steel 316 housings.
- Holds guards closed and locked up to 3000N.
- Can be padlocked off for safe working.



KLT INTERNAL CONNECTIONS:



TECHNICAL SPECIFICATIONS:

Standards:	ISO14119 EN60947-5-1 EN60204-1 EN62601 ISO13849-1 UL 60947-5-1
Safety Classification and Reliability Data:	
Mechanical Reliability B10d	2.5 x 10^6 operations at 100mA load
ISO13849-1	Up to PLe depending upon system architecture
EN62061	Up to SIL3 depending upon system architecture
Safety Data – Annual Usage	8 cycles per hour/24 hours per day/365 days
PFHd	4.77 x 10^{-10}
Proof Test Interval (Life)	20 years
MTTFd	1100a
Technical Specification:	
KLT-SS-RFID Supply/Solenoid Voltage	24V dc
Solenoid Wattage	9W
Rated Insulation/Withstand Voltages	600Vac/2500Vac
Travel for Positive Opening	10mm
Maximum Approach/Withdrawal Speed	600mm/s
Holding Force	F1Max 3000N Fzh 2307N
Body Material	Die-cast painted red or Stainless Steel 316
Head Material	Polished Stainless Steel 316
Enclosure Protection	IP65
Operating Temperature	-25C +40C
Vibration	IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min
Conduit Entry	M20
Fixing	4 x M5

For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed actuator inserted.

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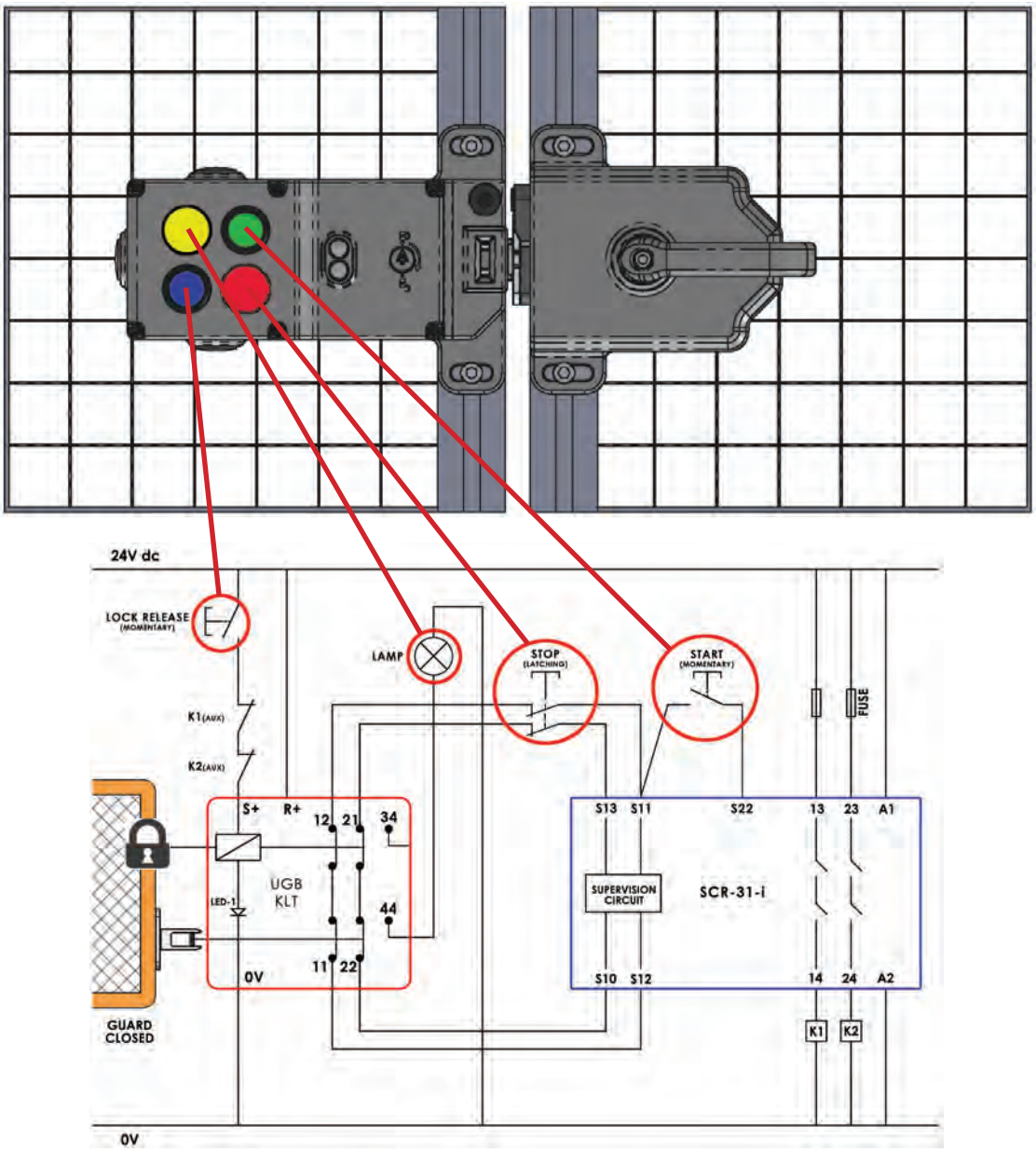
Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

UGB-KLT GATEBOX SOLUTION:

All-in-one control and safety interlocking with RFID coding.

PROBLEM:
A traditional control installation requires several external components and housings for switches, push buttons, lamps, etc. All of these external components require individual mounting brackets and also require several conduit/cable runs.

THE SOLUTION: UGB-KLT GATEBOX
Only 4 mounting bolts, options for sliding or rotary handles, emergency release options and can use only one conduit exit for wiring.
Up to 4 x 22mm pushbuttons, switches or lamps can be fitted integrally.
RFID interlocking with LED diagnostics provides high functional safety interlocking.
Holds guards closed and locked up to 3000N.



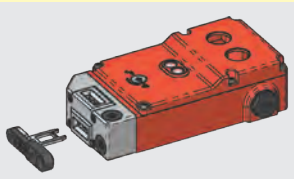
SCHEMATIC EXAMPLE:
UGB-KLT fitted with integral LATCHING STOP, STATUS PILOT LAMP, START and LOCK RELEASE buttons.
Connected to a safety relay to give up to PLe/ Cat 4.

Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

GATE BOX SWITCHES & ACTUATORS SALES NUMBERS:

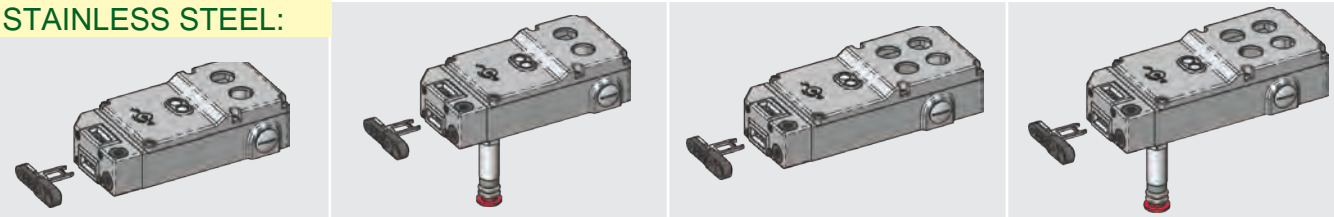
Note: ALL Universal Gate Boxes are supplied complete with RFID coded tongue actuator. These can fitted directly where no rear escape or rotary handles are preferred.

DIE CAST:



TYPE: UGB2-KLTM-RFID	TYPE: UGB2-KLTM-RFID-RR	TYPE: UGB4-KLTM-RFID	TYPE: UGB4-KLTM-RFID-RR
Universal Gate Box (2 Station)	Universal Gate Box (2 Station) with Rear Release	Universal Gate Box (4 Station)	Universal Gate Box (4 Station) with Rear Release
24V Solenoid M20 Conduit	24V Solenoid M20 Conduit	24V Solenoid M20 Conduit	24V Solenoid M20 Conduit
SALES NUMBER (Manual Override)	**SALES NUMBER(Manual Override)**	**SALES NUMBER(Manual Override)**	**SALES NUMBER(Manual Override)**
525001	525002	526001	526002
SALES NUMBER (No Manual Override)	**SALES NUMBER (No Manual Override)**	**SALES NUMBER (No Manual Override)**	**SALES NUMBER (No Manual Override)**
525003	525004	526003	526004

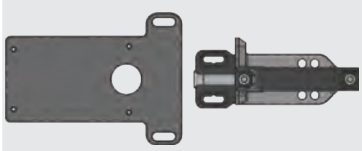
STAINLESS STEEL:

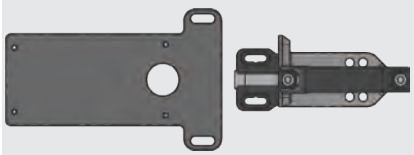


TYPE: UGB2-KLT-SS-RFID	TYPE: UGB2-KLT-SS-RFID-RR	TYPE: UGB4-KLT-SS-RFID	TYPE: UGB4-KLT-SS-RFID-RR
Universal Gate Box (2 Station)	Universal Gate Box (2 Station) with Rear Release	Universal Gate Box (4 Station)	Universal Gate Box (4 Station) with Rear Release
24V Solenoid M20 Conduit	24V Solenoid M20 Conduit	24V Solenoid M20 Conduit	24V Solenoid M20 Conduit
SALES NUMBER (Manual Override)	**SALES NUMBER(Manual Override)**	**SALES NUMBER(Manual Override)**	**SALES NUMBER(Manual Override)**
520001	520002	521001	521002
SALES NUMBER (No Manual Override)	**SALES NUMBER (No Manual Override)**	**SALES NUMBER (No Manual Override)**	**SALES NUMBER (No Manual Override)**
520003	520004	521003	521004

IMPORTANT NOTE: Order 22mm accessories (Switches, Lamps, Push Buttons) separately - please see next page.

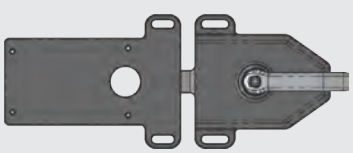
ACCESSORIES FOR ENHANCED FUNCTIONS OF SLIDING FRONT/REAR HANDLES:

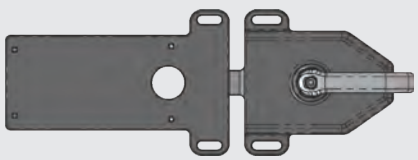


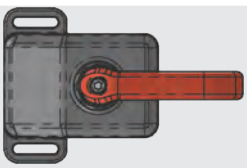


UGB2 Sliding Front Handle and Mounting Plate	UGB4 Sliding Fron Handle and Mounting Plate	Rear Sliding Handle (for use with RR versions and Sliding Front Handles)	Optional Spring Catch to prevent accidental re-closing of Sliding Front Handles
SALES NUMBERS	**SALES NUMBERS**	**SALES NUMBERS**	**SALES NUMBERS**
UBG2-SFH-M (Die-Cast)	**UGB4-SFH-M (Die Cast)**	**REAR HANDLE (Die Cast)**	**SPRING CATCH (Die Cast)**
527001	527002	210005	210006
UGB2-SFH-SS (Stainless Steel)	**UGB4-SFH-SS (Stainless Steel)**	**REAR HANDLE (Stainless Steel)**	**SPRING CATCH (Stainless Steel)**
522001	522002	211005	211006

ACCESSORIES FOR ROTARY FRONT HANDLES & REAR ROTARY ESCAPE HANDLES:







Rotary Front Handle and Mounting Plate	Rotary Front Handle and Mounting Plate	Rear Escape Rotary Handle (Optional)
SALES NUMBERS	**SALES NUMBERS**	**SALES NUMBERS**
UGB2-RFH-M (Die Cast)	**UGB4-RFH-M (Die Cast)**	**UGB-RERH-M (Die Cast)**
527003-L / 527003-R	527004-L / 527004-R	527005-L / 527005-R
UGB2-RFH-SS (Stainless Steel)	**UGB4-RFH-SS (Stainless Steel)**	**UGB-RERH-SS(Stainless Steel**
522003-L / 522003-R	522004-L / 522004-R	522005-L / 522005-R

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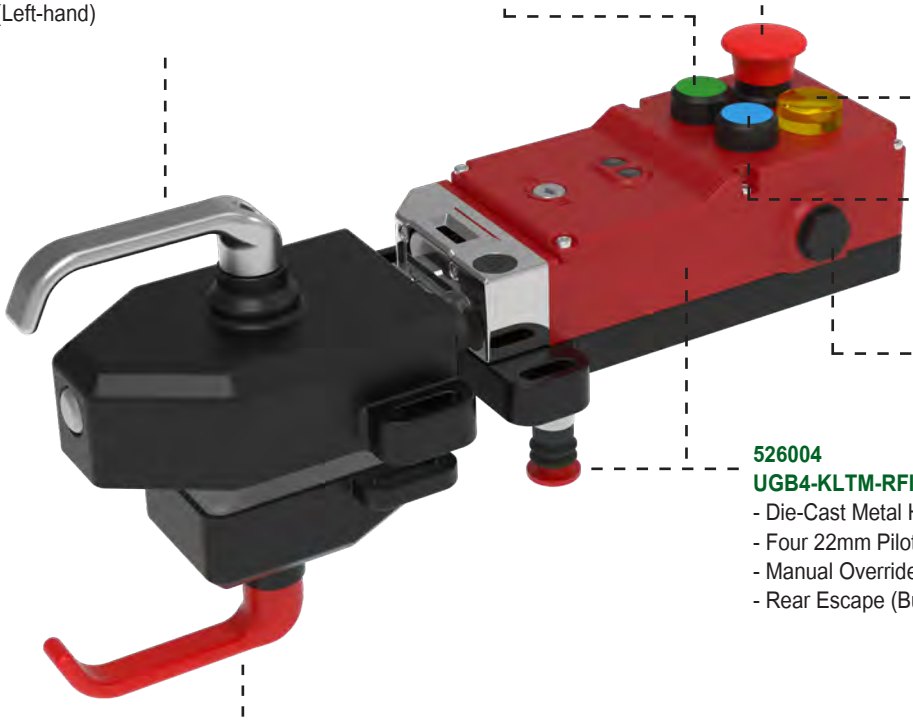
Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

EXAMPLE 1:



527004-L
UGB4-RFH-M
Rotary Handle and Mounting Plate
(Left-hand)

522302
Compact Push Button
Momentary - Green 1NC 1NO

522205
Compact E-Stop, Twist to
Release, 2NC

522401
Pilot Light LED - Yellow 24Vdc

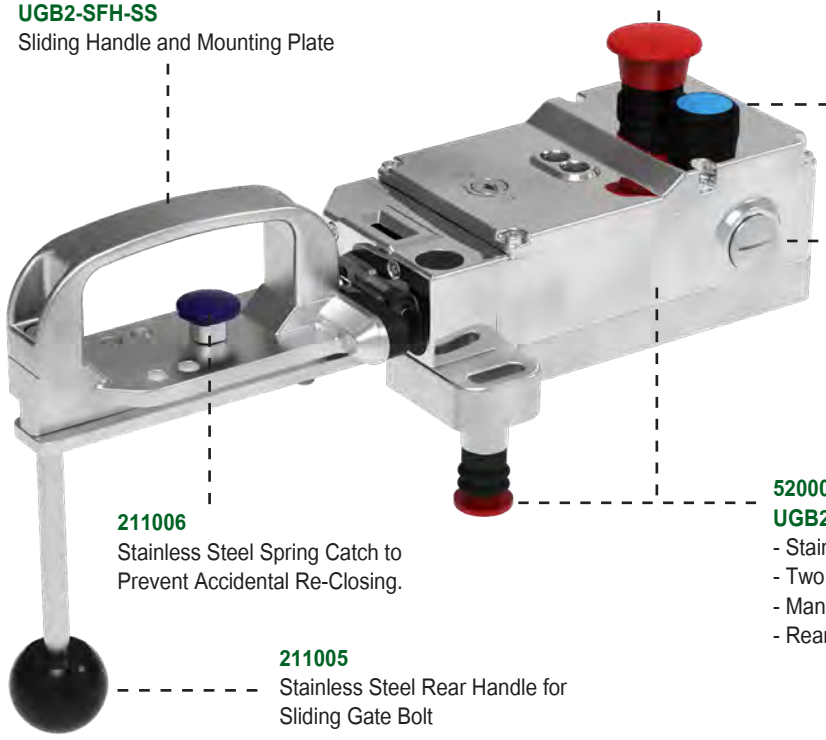
522304
Compact Push Button
Momentary - Blue 1NC 1NO

Three M20 Conduit Entries for
Pre-Wiring

526004
UGB4-KLTM-RFID-RR
- Die-Cast Metal Housing
- Four 22mm Pilot Device Positions
- Manual Override on the Lid
- Rear Escape (Button Included)

527005-L
Rotary Rear Handle (Left-Hand)

EXAMPLE 2:



522001
UGB2-SFH-SS
Sliding Handle and Mounting Plate

522205
Compact E-Stop, Twist to
Release, 2NC

522304
Compact Push Button
Momentary - Blue 1NC 1NO

Three M20 Conduit Entries for
Pre-Wiring

211006
Stainless Steel Spring Catch to
Prevent Accidental Re-Closing.

520002
UGB2-KLT-SS-RFID-RR
- Stainless Steel Housing
- Two 22mm Pilot Device Positions
- Manual Override on the Lid
- Rear Escape (Button Included)

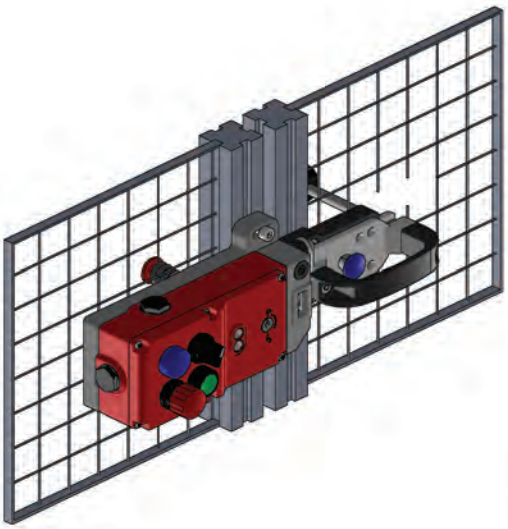
211005
Stainless Steel Rear Handle for
Sliding Gate Bolt

Universal Gate Box with RFID: **UGB4-KLT**

APPLICATION EXAMPLE:

4 STATION (UGB4) with Front Sliding Handle, Rear Escape Button and Rear Escape Sliding Handle.
Fitted with Spring Loaded Catch (optional) – to prevent accidental closing after opening of the guard.

VIEWED FROM OUTSIDE GUARDED AREA



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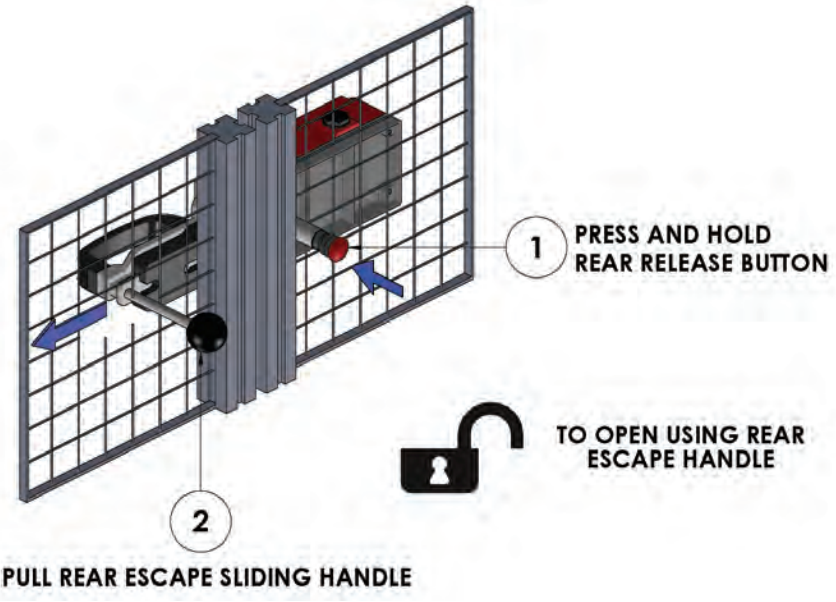
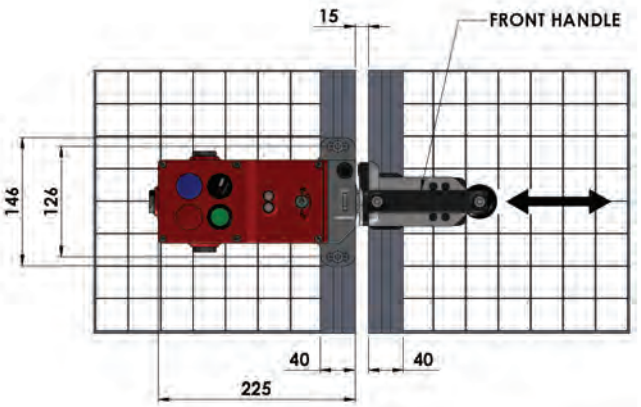
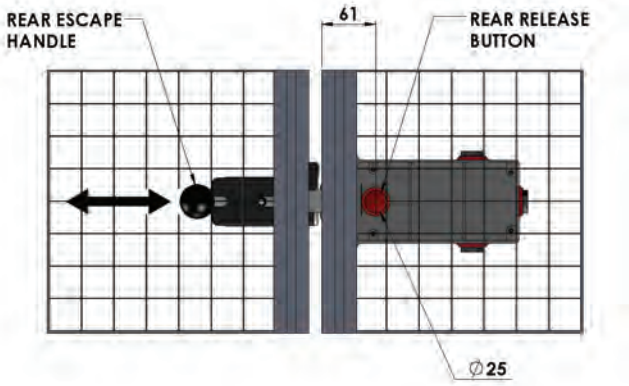
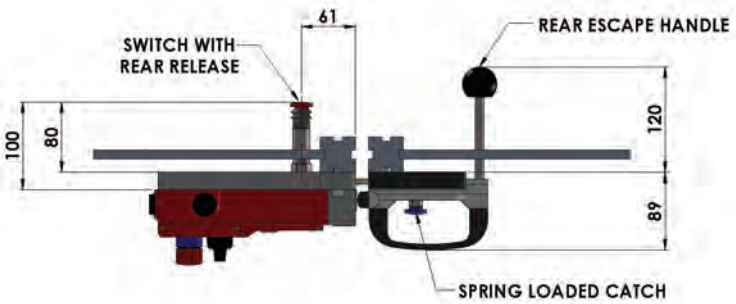








DESCRIPTION	SALES NUMBER
UGB4-KLTM-RFID-RR	
With LID Manual Override, or	526002
With NO Manual Override	526004
UGB4-SFH-M (Sliding Front Handle)	527002
Rear Release Handle (Stainless Steel)	210005
Spring Loaded Catch (Stainless Steel)	210006

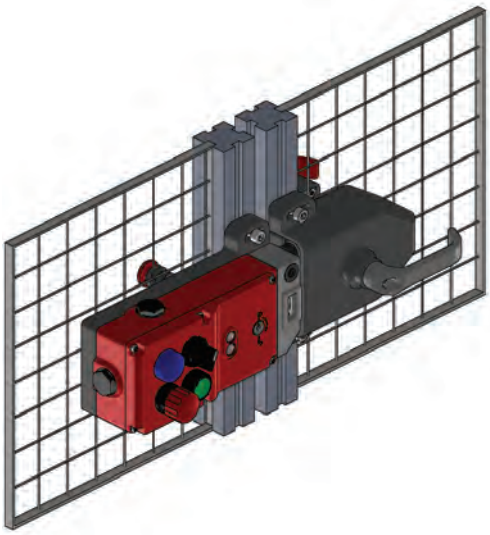
ORDER SEPARATELY:
22mm Push Buttons, Switches, Lamps - See P209.

Universal Gate Box with RFID: **UGB4-KLT**

APPLICATION EXAMPLE:

4 STATION (UGB4) with Front Rotary Handle, Rear Escape Button and Rear Escape Rotary Handle.

VIEWED FROM OUTSIDE GUARDED AREA



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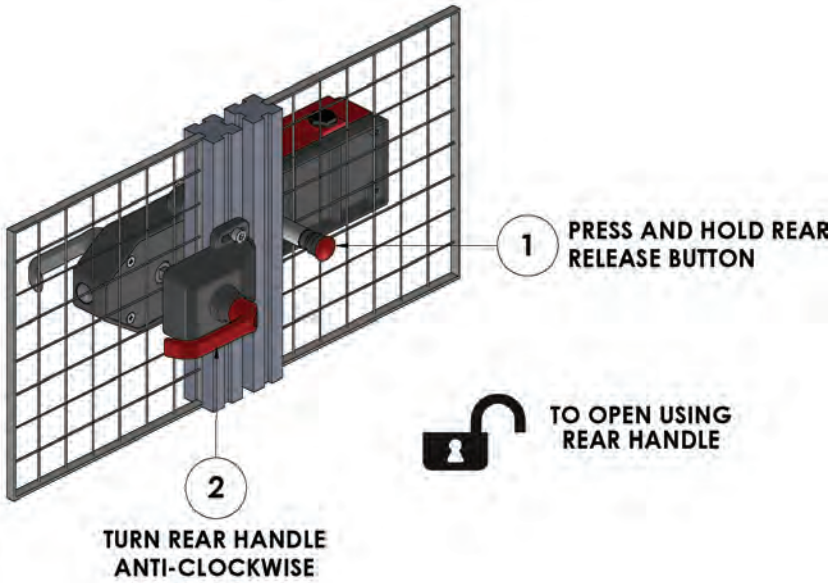
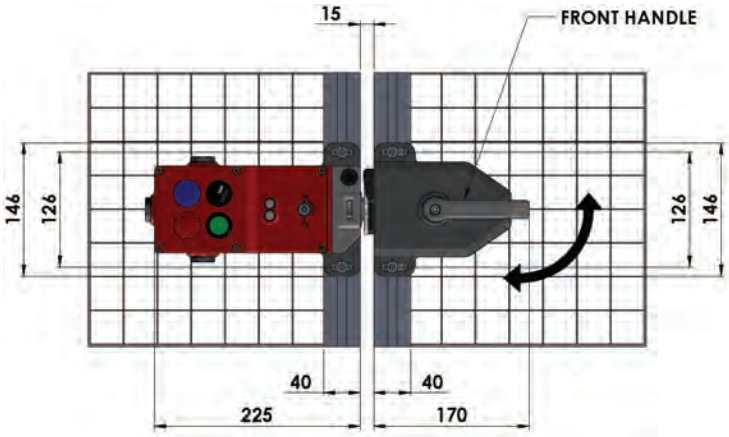
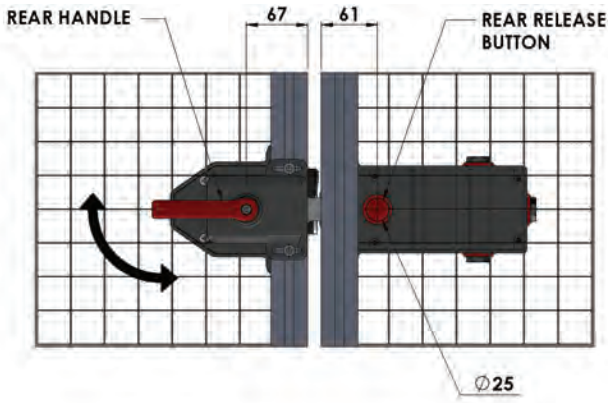
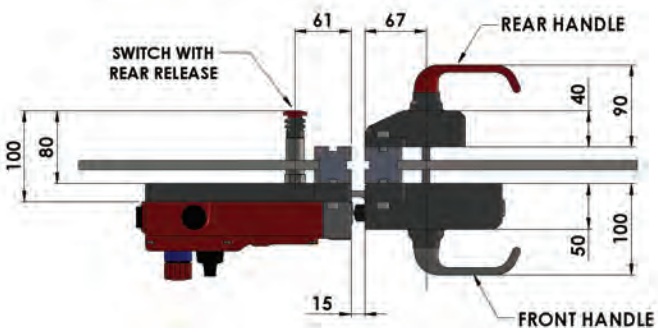








DESCRIPTION	SALES NUMBER
UGB4-KLTM-RFID-RR	
With LID Manual Override, or	526002
With NO Manual Override	526004
UGB4-RFH-M (Rotary Front Handle)	527004
UGB-RERH-M (Rear Escape Rotary Handle)	527005

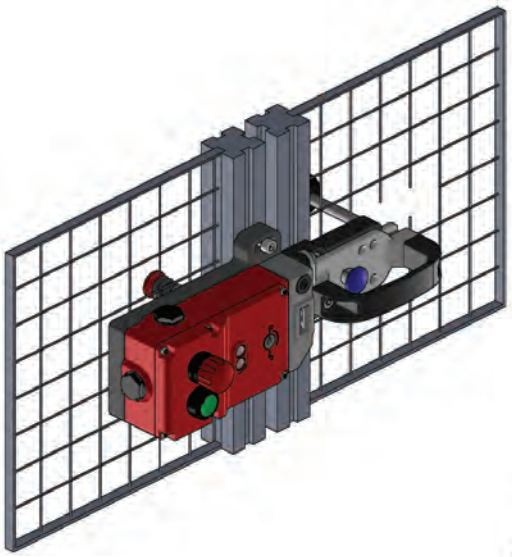
ORDER SEPARATELY:
22mm Push Buttons, Switches, Lamps - See P209.

Universal Gate Box with RFID: **UGB2-KLT**

APPLICATION EXAMPLE:

2 STATION (UGB2) with Front Sliding Handle, Rear Escape Button and Rear Escape Sliding Handle.
Fitted with Spring Loaded Catch – to prevent accidental closing after opening of the guard (optional).

VIEWED FROM OUTSIDE GUARDED AREA



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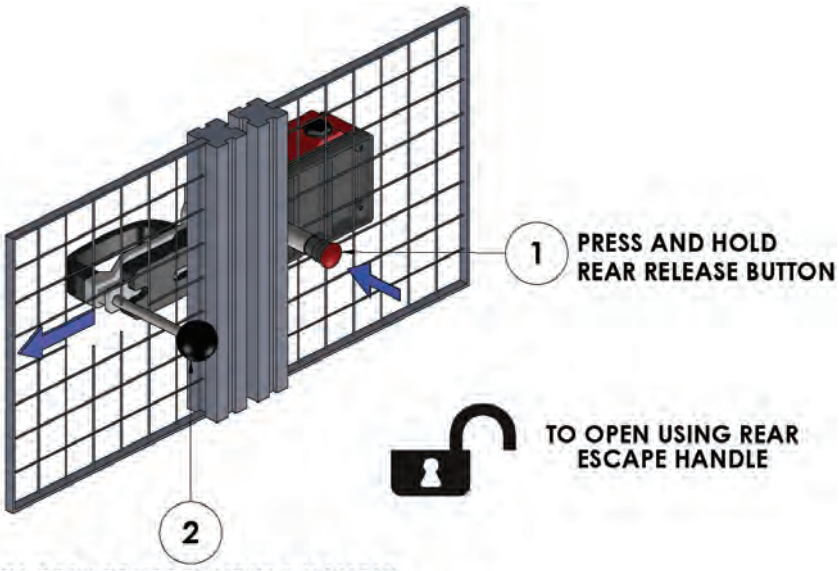
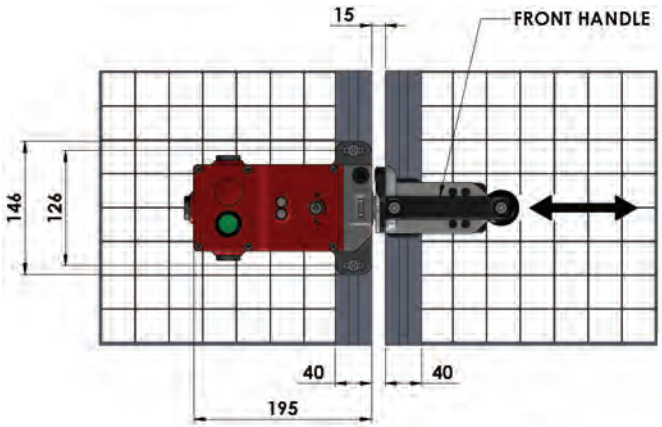
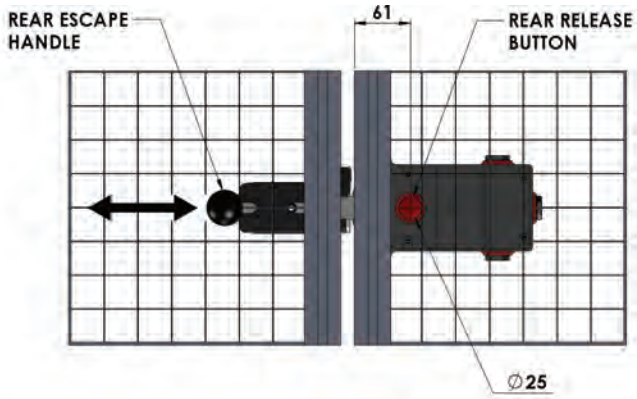
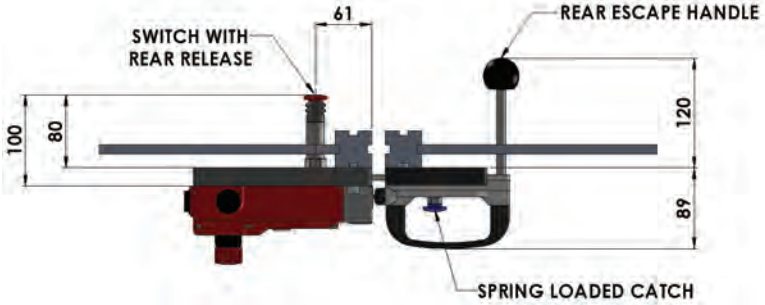








DESCRIPTION	SALES NUMBER
UGB2-KLTM-RFID-RR	
With LID Manual Override, or	525002
With NO Manual Override	525004
UGB2-SFH-M (Sliding Front Handle)	527001
Rear Release Handle (Stainless Steel)	210005
Spring Loaded Catch (Stainless Steel)	210006

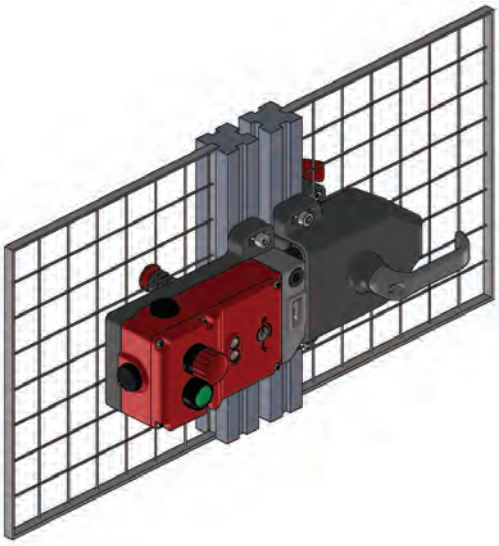
ORDER SEPARATELY:
22mm Push Buttons, Switches, Lamps - See P209.

Universal Gate Box with RFID: **UGB2-KLT**

APPLICATION EXAMPLE:

2 STATION (UGB2) with Front Rotary Handle, Rear Escape Button and Rear Escape Rotary Handle.

VIEWED FROM OUTSIDE GUARDED AREA



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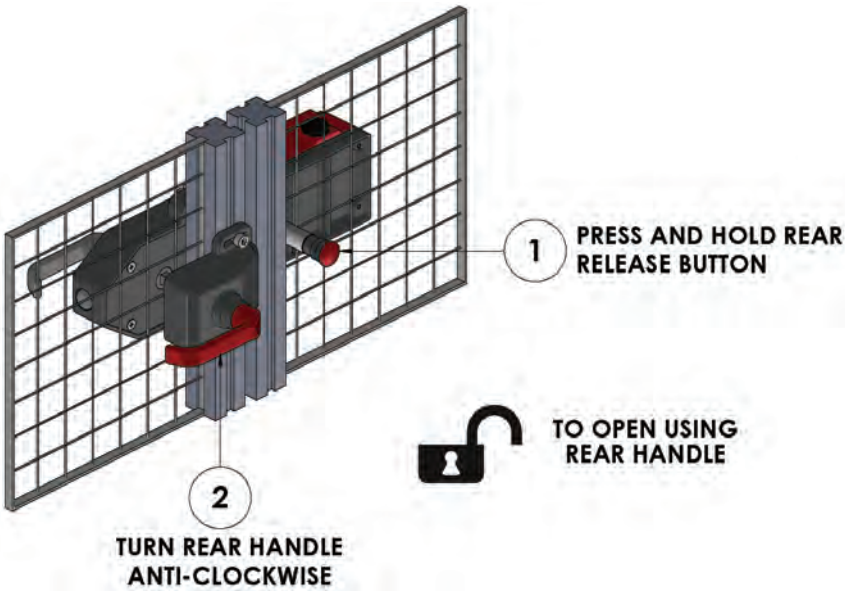
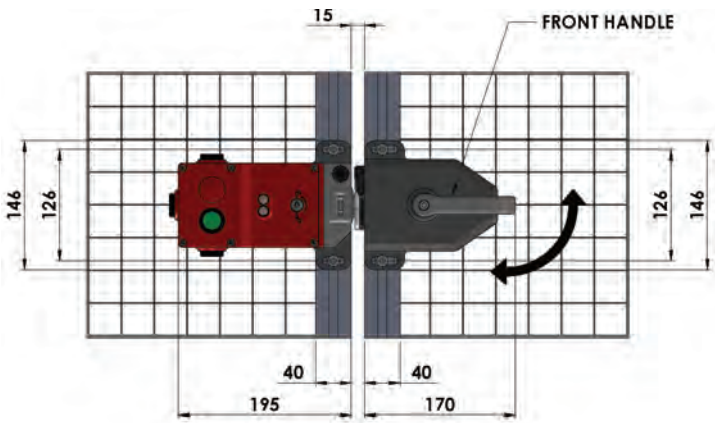
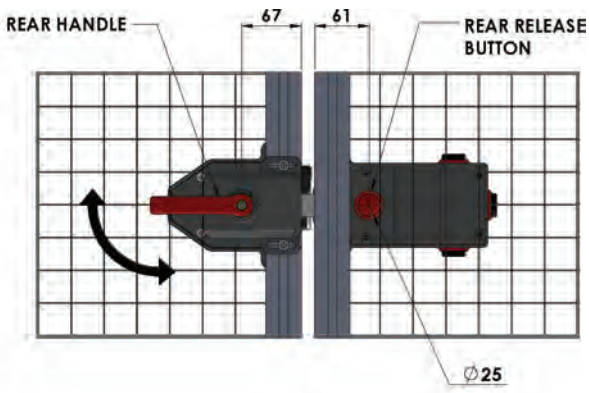
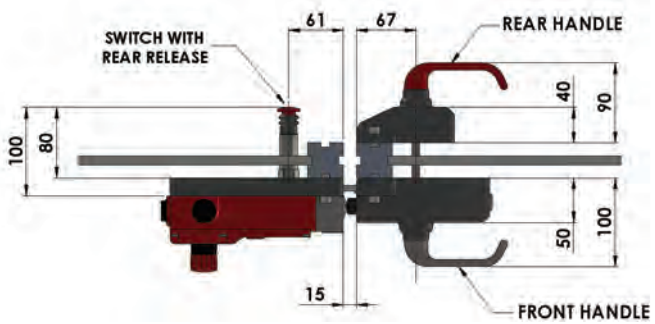








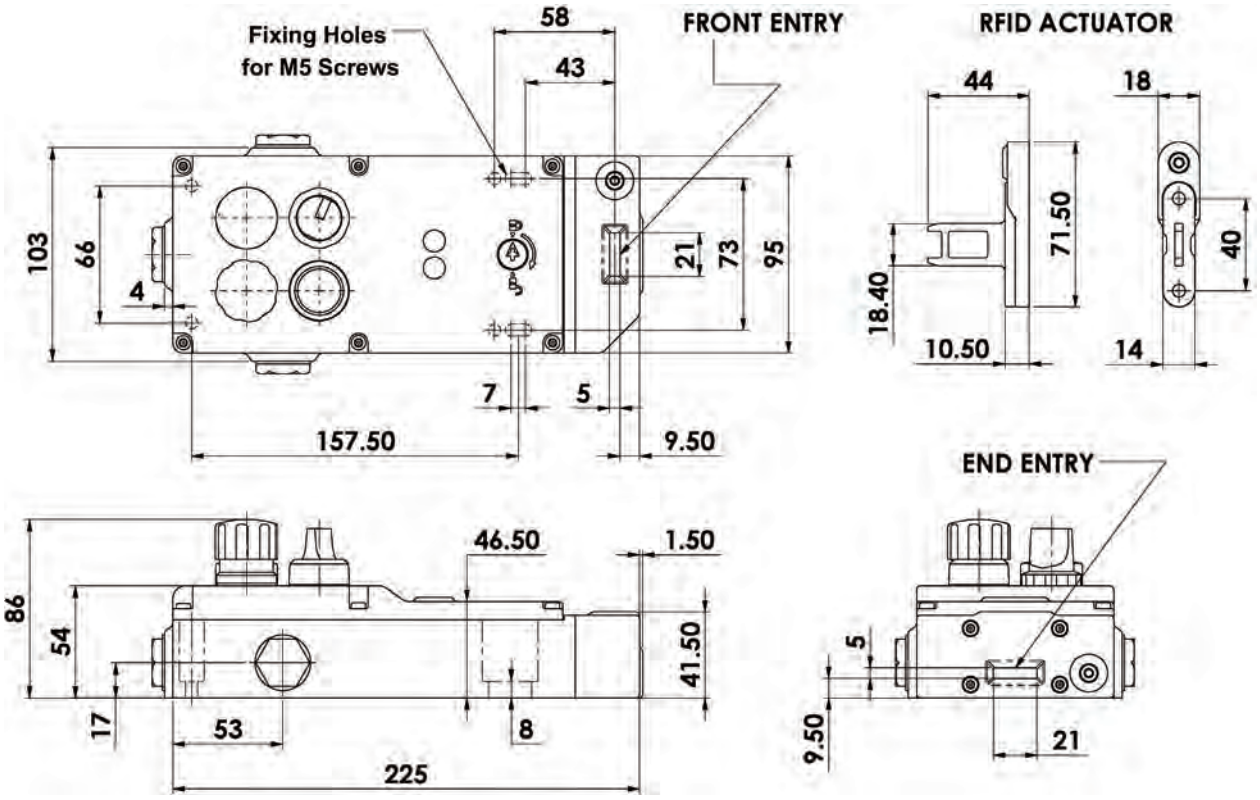
DESCRIPTION	SALES NUMBER
UGB2-KLTM-RFID-RR	
With LID Manual Override, or	525002
With NO Manual Override	525004
UGB2-RFH-M (Rotary Front Handle)	527003
UGB-RERH-M (Rear Escape Rotary Handle)	527005

ORDER SEPARATELY:
22mm Push Buttons, Switches, Lamps - See P209.

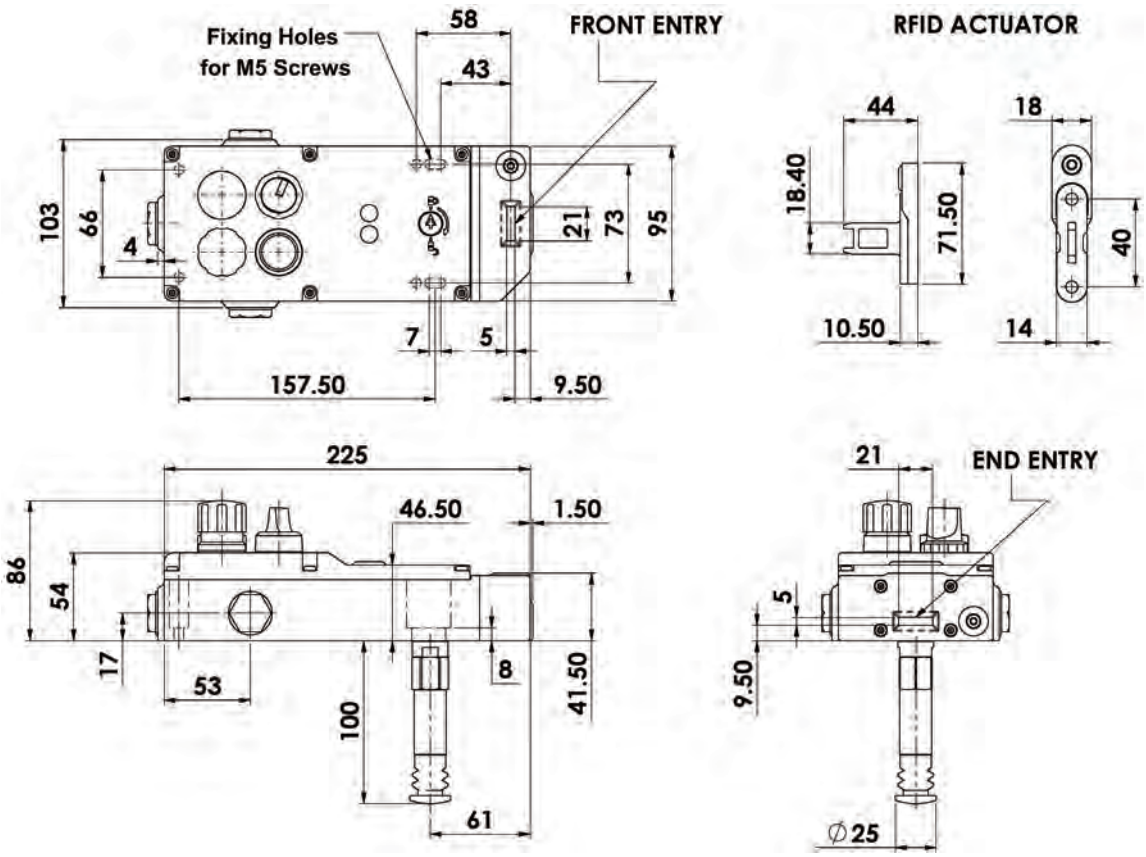
Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

PRODUCT DIMENSIONS:

TYPE: UGB 4-KLTM-RFID



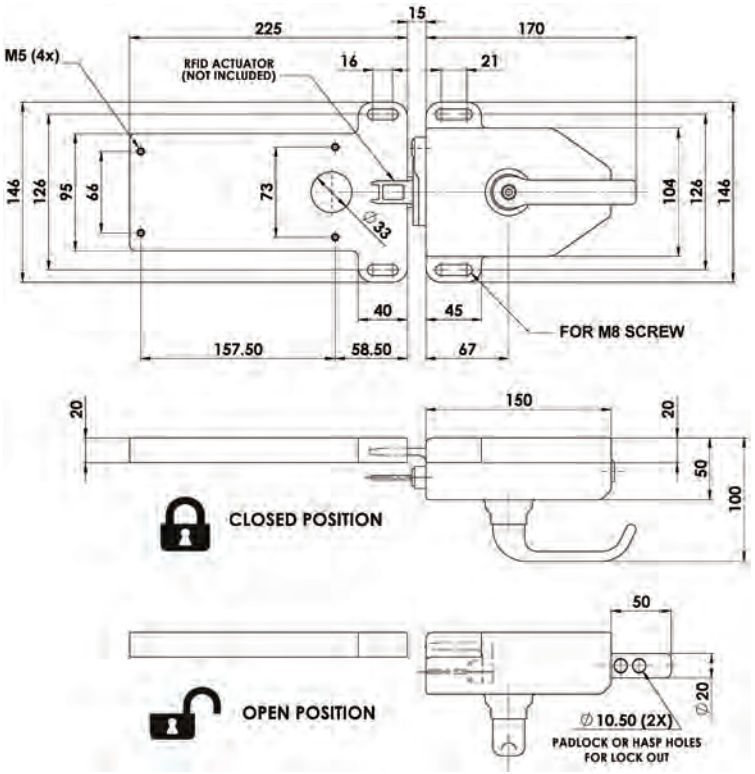
TYPE: UGB 4-KLTM-RFID-RR (Rear Release)



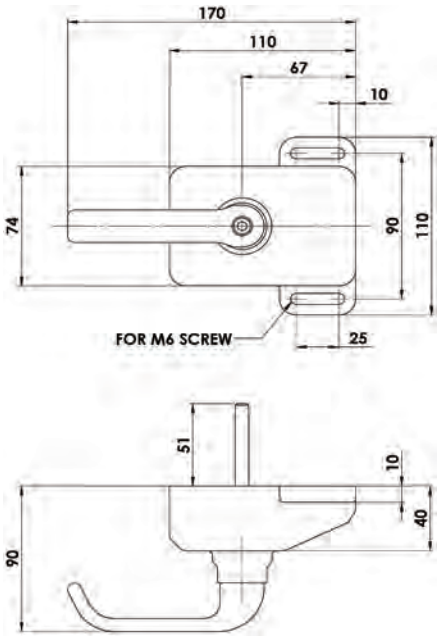
Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

PRODUCT DIMENSIONS:

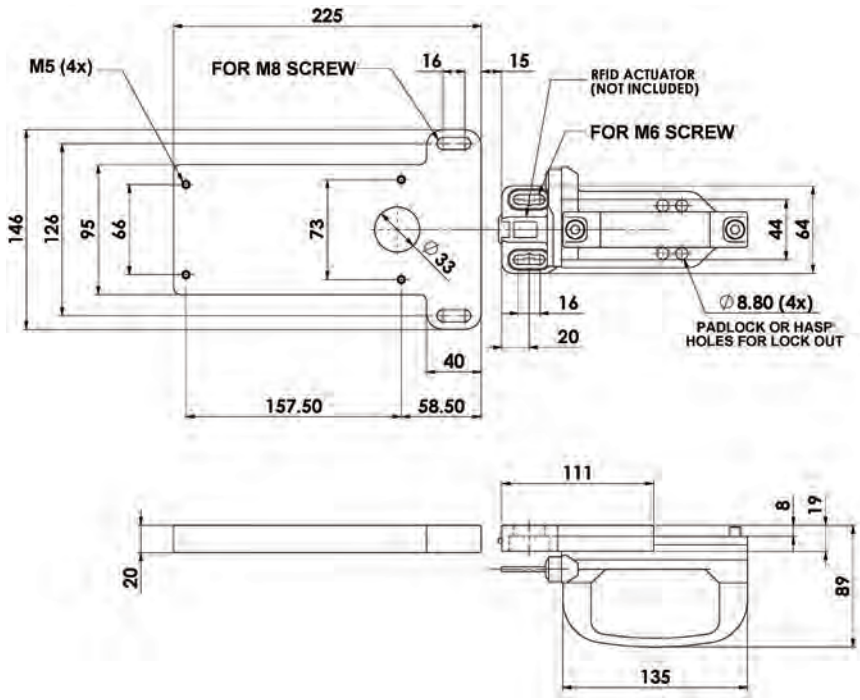
TYPE : UGB 4- ROTARY HANDLE (4 x APP)

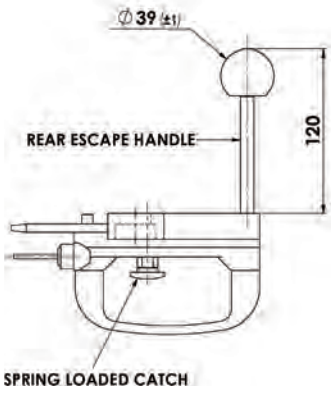


TYPE : UGB-ROTARY REAR HANDLE



TYPE : UGB 4 SLIDING HANDLE (4 x APP)

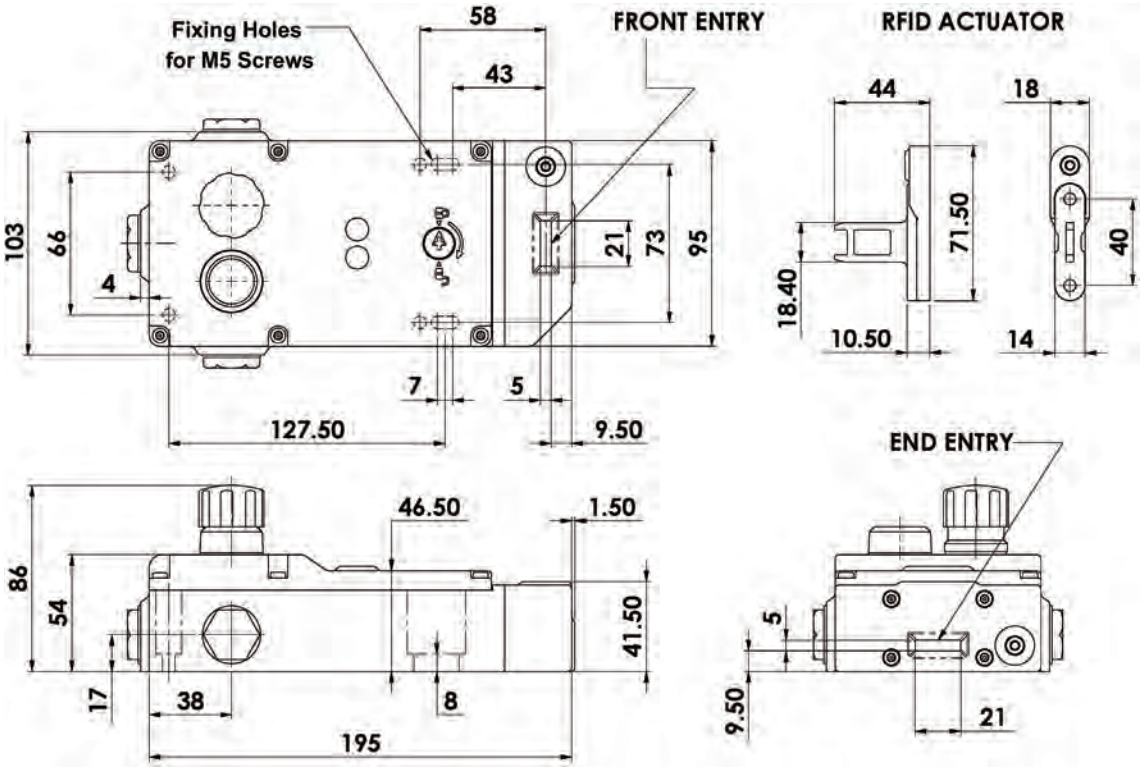




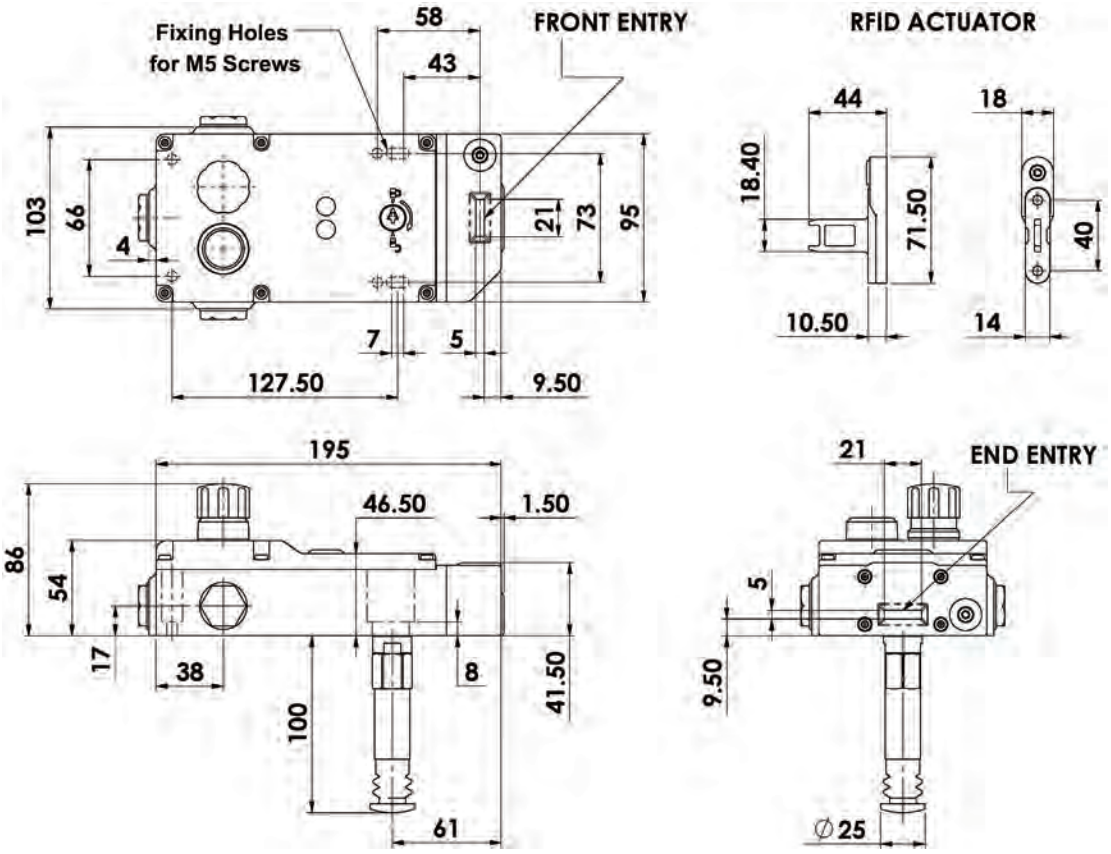
Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

PRODUCT DIMENSIONS:

TYPE: UGB 2-KLTM-RFID



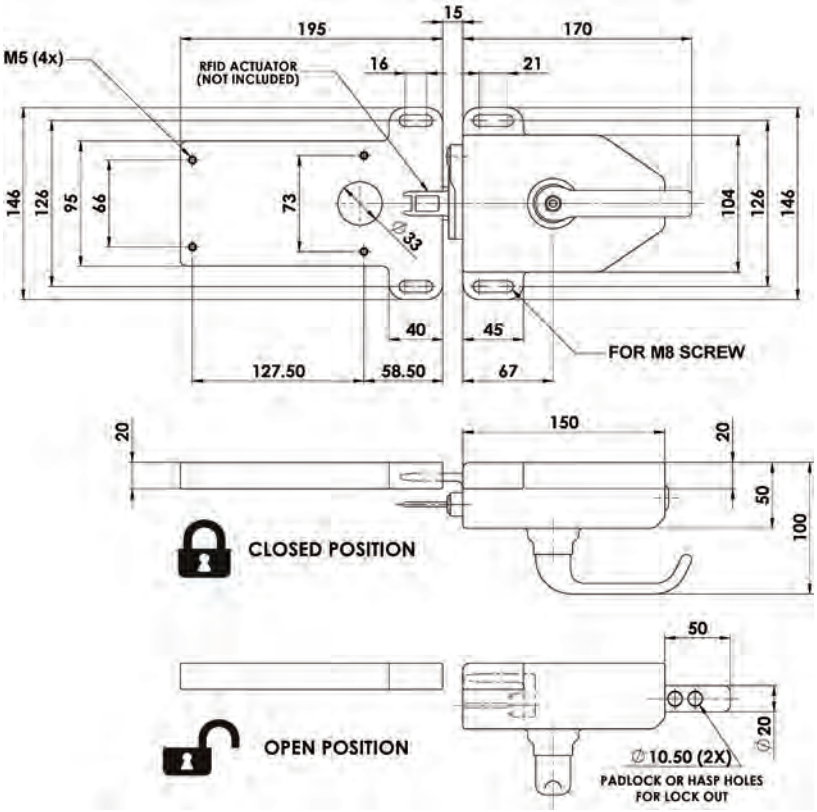
TYPE: UGB 2-KLTM-RFID-RR (Rear Release)



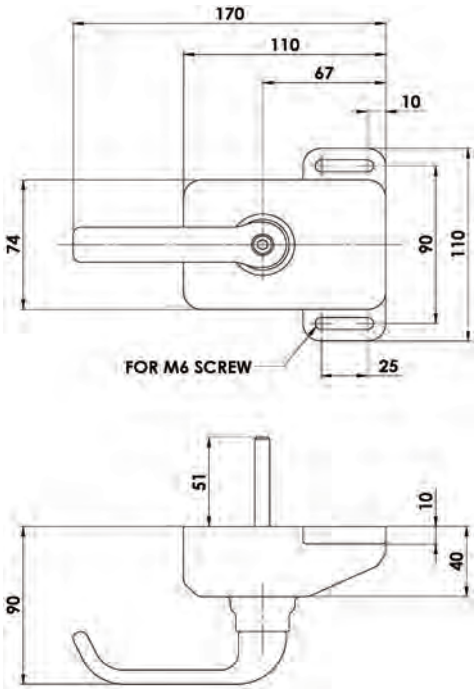
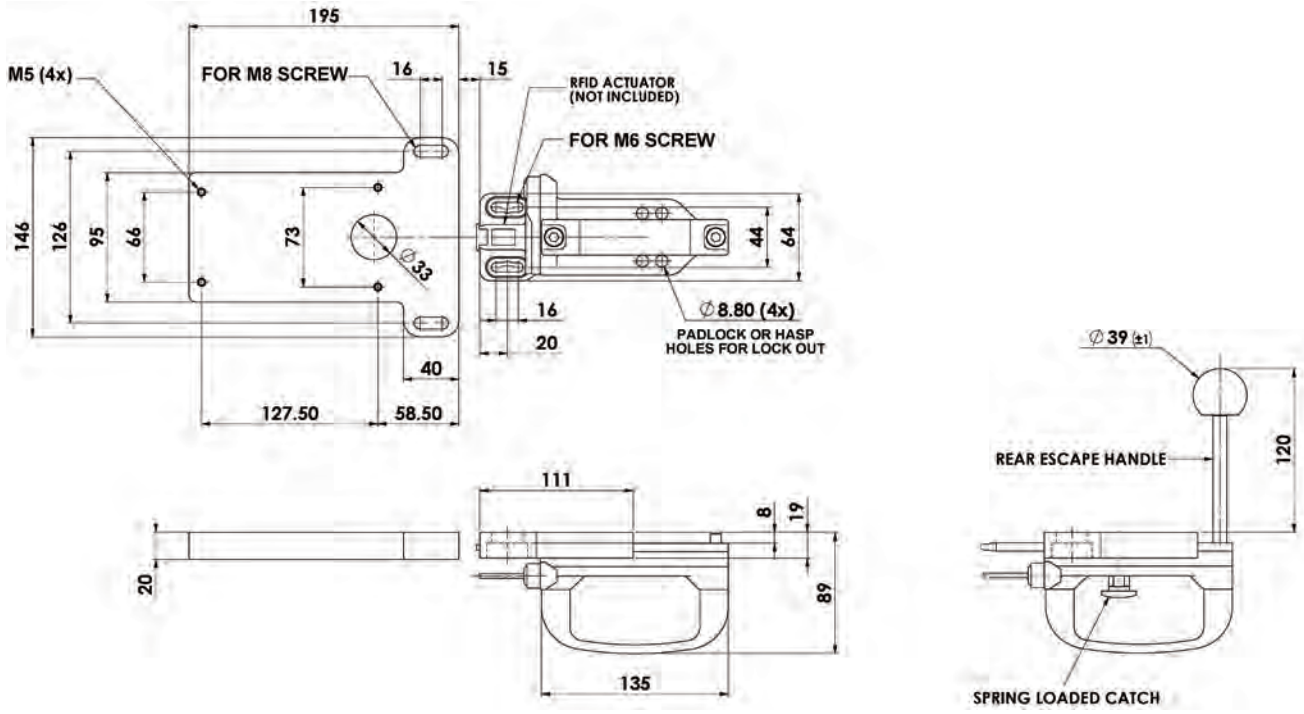
Universal Gate Box with RFID: **UGB2-KLT, UGB4-KLT**

PRODUCT DIMENSIONS:

TYPE : UGB 2- ROTARY HANDLE (2 x APP)



TYPE : UGB-ROTARY REAR HANDLE



TYPE : UGB 2 SLIDING HANDLE (2 x APP)