Gate Bolt for Non Contact Switches **GBN-1 & GBN-2**

APPLICATION:

IDEM GBN Gate Bolts when used with non contact switches provide interlocking of the guard but ensure that unintentional restart is prevented.

A deliberate action of sliding and re-latching the gate bolt handle is required.

In conjunction with a Risk Assessment (ISO12100-1/ISO12100-2) they can be used to eliminate the risk of operators becoming accidentally trapped inside a guarded area.

FEATURES:

Manufactured in robust metal construction.

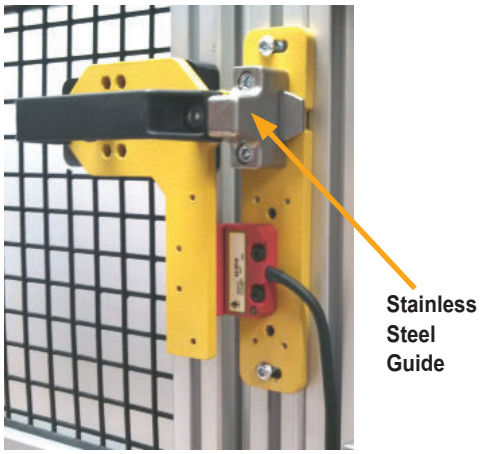
Switches are mounted to aluminium plates to maximize read range.

Over 30mm ($1^1/_4$") adjustability (handle bracket and switch bracket mounting holes are slotted) to compensate for varying door gaps.

There are padlock holes provided to lock the handle to prevent the guard from being closed and the machine started during maintenance.

Stainless steel guide prevents accidental closure, keeps safety switches properly aligned and acts as door latch.

All individual pieces are replaceable if damaged (handle, guide, individual brackets, etc.). Switch brackets are pre-drilled to accommodate non contact safety switches (as listed).





GBN-1 shown fitted with SPF-RFID Non Contact Switch **Left Hand Version shown.**

Unlocking of the Gate Bolt can only be achieved by sliding the handle.

(Optional Rear Handle accessory available if there is a requirement to escape from the guarded area.)

Requires deliberate re-closing when re-start is required.

GBN-1 Gate Bolts hold the guard closed when the handle is closed, providing shearing forces of up to 10,000N on hinged guards.

GBN-2 shown fitted with SPF-RFID Non Contact Switch **Left Hand Version shown.**

Instant unlocking from inside the guarded area (held by springs only). Requires deliberate re-closing when re-start is required.

GBN-2 Gate Bolts with instant rear escape release allow operators to immediately open a closed guard from inside the danger area just by pushing the guard door. No tools or keys are needed to allow instant rear escape.

These Gate Bolts do not lock the guard but are retained by springs to enable the guard to remain closed under normal operating conditions.

Whether opening the guard normally from the front (by using the handle) or by initiating the instant release by pushing the guard from inside the hazard zone the handle needs to be re-latched before the machine can be re-started.

A spring loaded stainless steel guide prevents the interlock being activated just by just closing or slamming the guard door.

OPTIONAL ACCESSORIES (which can be retro-fitted after installation):

GBN-1 only: Rear handle where there is a requirement to open the Gate Bolt from inside the guarded area.

GBN-1 & GBN-2: Spring loaded catch to prevent accidental actuation after opening of the handle. This holds the door in the closed position with light force (to prevent accidental opening due to vibration or other unforeseen actions).
When opened, knob retains the door in the open position and cannot close unless catch is pulled upwards.

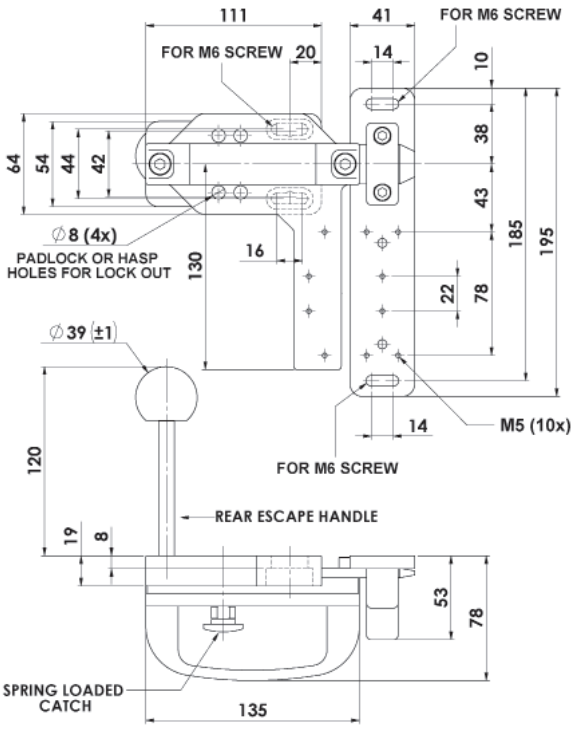
GBN-1 GATE BOLT	HANDLE POSITION	SALES NUMBER
GBN-1 (Gate Bolt Non Contact)	Left	210007
GBN-1 (Gate Bolt Non Contact)	Right	210008
	Rear Handle	210005
	Spring Loaded Catch	210006

GBN-2 GATE BOLT	HANDLE POSITION	SALES NUMBER
GBN-2 (Gate Bolt Non Contact)	Left	210050
GBN-2 (Gate Bolt Non Contact)	Right	210051

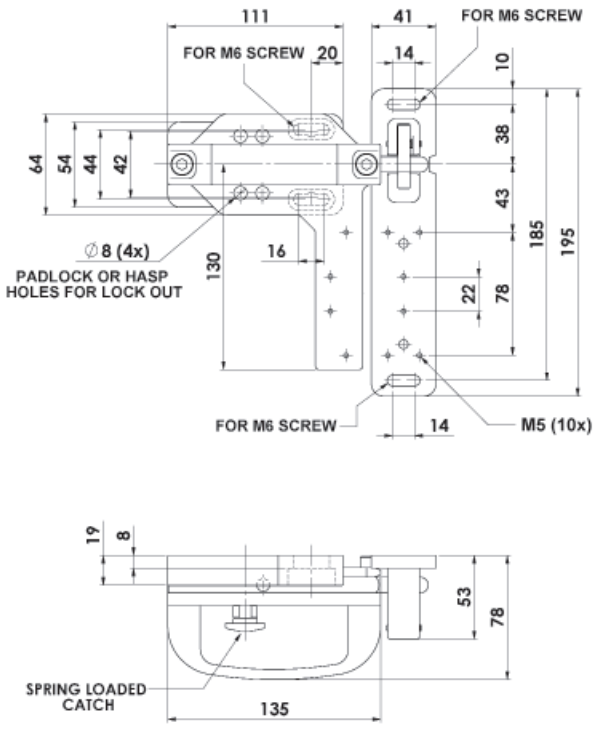
GBN-1 SUITABLE FOR THE FOLLOWING SWITCHES		
GBN-1	CODED:	SPC, SMC, SMC-H, LPC, LMC
	MAGNETIC:	SPR SMR, SMR-H, LPR, LMR
	RFID:	SPF-RFID, LPF-RFID, LPZ-RFID

GBN-2 SUITABLE FOR THE FOLLOWING SWITCHES		
GBN-2	CODED:	SPC, SMC, SMC-H, LPC, LMC
	MAGNETIC:	SPR SMR, SMR-H, LPR, LMR
	RFID:	SPF-RFID, LPF-RFID, LPZ-RFID

Gate Bolts for Non Contact Switches **Types: GBN-1 & GBN-2**



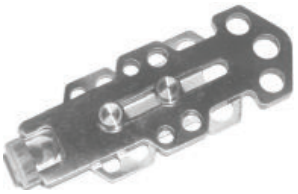
Type: GBN-1

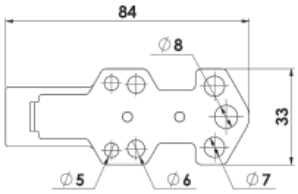


Type: GBN-2

Accessories

MAINTENANCE LOCK OUT ACTUATOR:







Maintenance Lock Out Actuator. Fits to IDEM Tongue Switches. Manufactured in Stainless Steel.
Fits to switch aperture during maintenance and provides multiple padlock holes. Shown fitted to KM Switch (padlock not included).

ACTUATOR WITH CHAIN ATTACHMENT:



Flat Actuator supplied with 300mm (12") chain.
Can be used where poor alignment exists and provides manual insertion of actuator by operator.

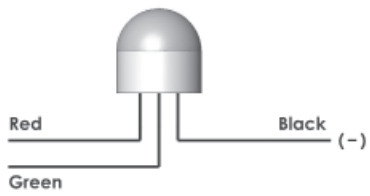
Manufactured in Stainless Steel.

CONDUIT FITTING LED BEACON:



2 colour LED (3 wires) Steady Red and Steady Green.
Fits to conduit entry of most switches and provides option for LED indication based upon switch contacts.
The dome shaped LED is visible from narrow angles.
Available voltages 24Vdc, 110Vac or 230Vac and either M20 or 1/2" NPT conduit thread.
PVC conductors, fully encapsulated IP67.
Maximum temperature: 60C.
Housing material is polyester.

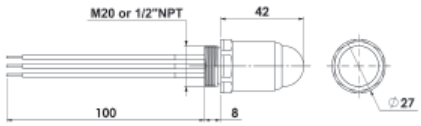
DESCRIPTION			SALES NUMBER
Lockout Actuator			140130
Flat Actuator with Chain			140131
Conduit LED Beacon	24Vdc	M20 conduit thread	140134
Conduit LED Beacon	110Vac	M20 conduit thread	140136
Conduit LED Beacon	230Vac	M20 conduit thread	140138
Conduit LED Beacon	24Vdc	1/2" NPT conduit thread	140135
Conduit LED Beacon	110Vac	1/2" NPT conduit thread	140137
Conduit LED Beacon	230Vac	1/2" NPT conduit thread	140139



Black is common
(0Vdc or negative for ac versions).

When power is applied to the RED wire the lamp will illuminate Red.

When power is applied to the GREEN wire the lamp will illuminate Green.



IDEM SAFETY SWITCHES Ltd., 2 Ormside Close, Hindley Industrial Estate, Hindley Green, Wigan, WN2 4HR UK. Tel: +44 (0)1942 257070 Fax.: +44 (0)1942 257076
IDEM (USA) 4416 Technology Drive, Fremont, CA 94538, USA. Tel:510-445-0751 Fax:1866-431-7064 email: sales@idemsafety.com Web: **www.idemsafety.com**