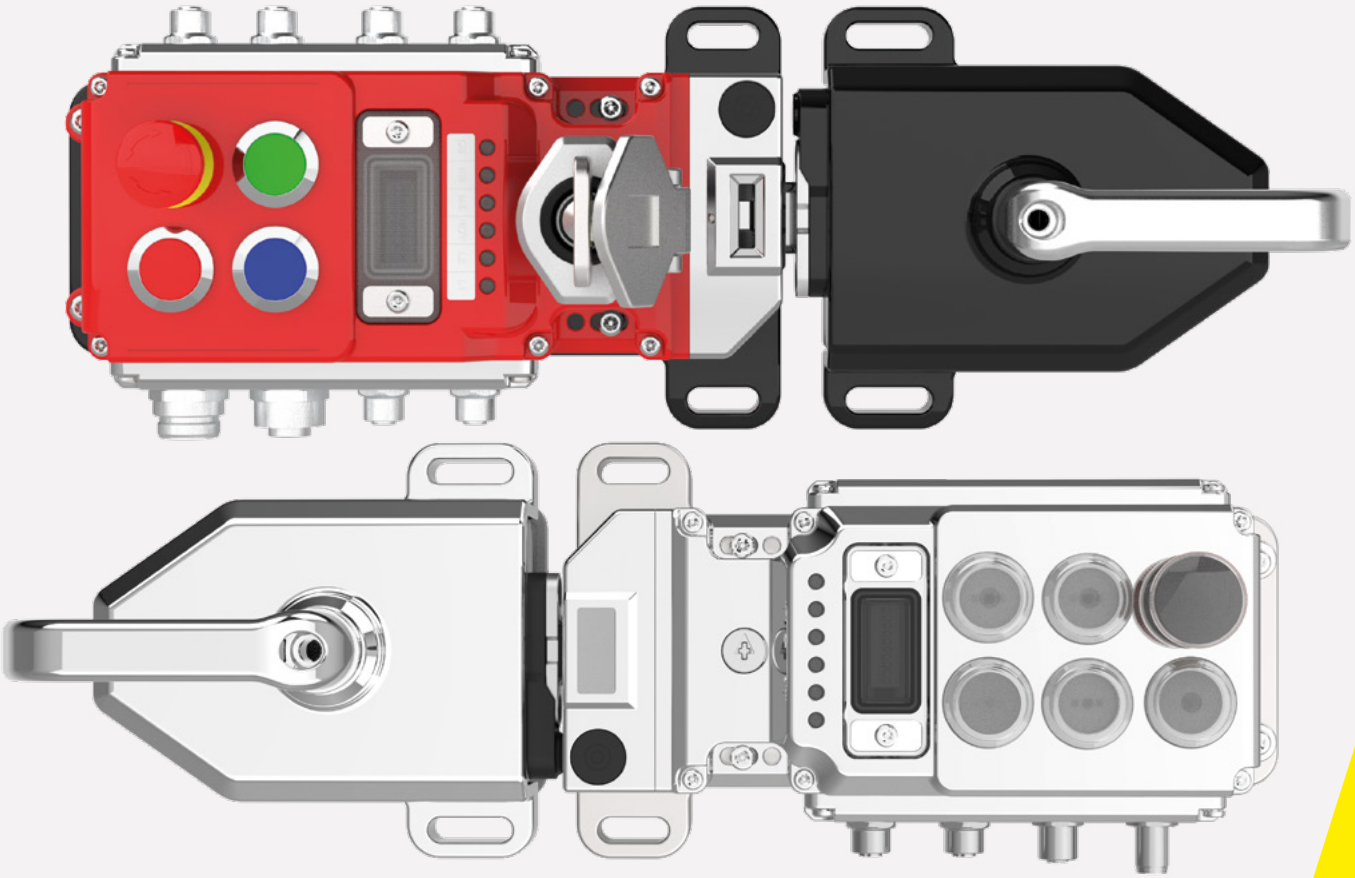
IDEM SAFETY

Making Industry Safer



Universal Gate Box with Integrated Industrial Ethernet

UGB-NET Product Overview Brochure

What We Do

IDEM designs and manufactures machine safety products, that make industry safer.

Proud Winners of

The Queen's Award for Enterprise: International Trade 2022

The King's Award for Enterprise: Innovation 2023

Our History

1985
The founder of IDEM, Medi Mohtasham begins his employment at EJA Engineering where he designed Trojan, Atlas, Rotacam and LRS1 under the Guardmaster brand. Rockwell Automation acquires EJA in 1996.

2003
Medi leaves his position as Technical Director of Rockwell to create IDEM Safety Switches, with the vision to develop the 'Next Generation' of Safety Switches, designed and manufactured in the UK.

2005
IDEM manufactures the GuardianLine range of safety rope switches, specialising in products for the Food Industry, Explosion Proof applications and Factory Automation.

Present
Today IDEM operates globally, providing reliable, cost-effective safety interlock solutions that save lives. IDEM continues to invest in new ways to protect your personnel and improve your productivity.

Why Choose IDEM?

Global leadership in the design and manufacture of machine safety products since 1985.

IDEM's global headquarters is based in the UK with offices in the USA and Europe.

Privately owned business with in house sales, R&D and technical support teams.

Renowned for world-class product quality and reliability on a global scale.

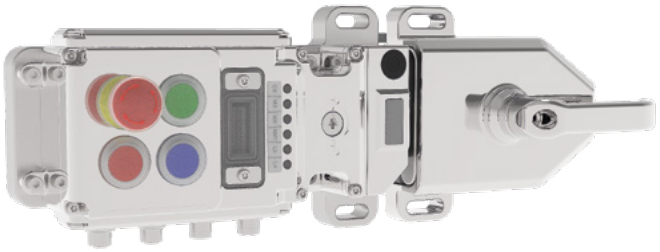
State-of-the-art manufacturing and test facilities. This includes Ingress Protection (IP) and Shock testing.

Exceptional delivery time for both small and large orders. We put the customers' needs first.

WHAT IS UGB-NET?

1 ROBUST

UGB-NET is an access gate box which combines solenoid locking, RFID coded sensor and integrated machine control funcions in a robust heavy duty housing. Available in Die - Cast Metal (red) or Stainless Steel 316.



2 NETWORKED

Integrated safety protocols for use with industry recognised Industrial Ethernet network protocols. Choose between PROFINET with PROFIsafe or Ethernet/IP with CIP Safety.

3 CUSTOMISABLE

The UGB-NET is highly customisable, allowing for up to 6 illuminated pilot devices (pushbuttons, lamps, selector switches and e-stops) to be included on the lid. These are factory configured to your specification.

4 EASY TO INSTALL

Depending on the application, the UGB-NET is available with rear escape functionality, mounting plate and handle accessories and emergency stop protection shroud. The external fixing points means the lid does not need to be removed during or after installation.

FEATURES AND BENEFITS

DIE-CAST OR 316 STAINLESS STEEL

UGB-NET is available in robust die-cast metal painted red, or mirror polished 316 stainless steel.

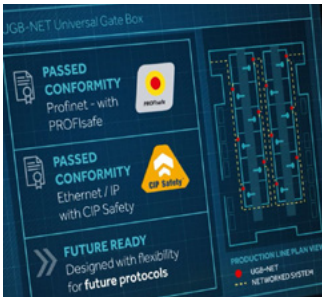
The 316 stainless steel IP69K version is suitable for washdown.

UP TO 6 PILOT DEVICES

UGB-NET base models are available with either 4 or 6 illuminated push buttons on the lid.

For requirements greater than 6, see page 6.

INDUSTRIAL ETHERNET READY



Compatible with both Ethernet/IP with CIP Safety and PROFINET with PROFIsafe industrial ethernet protocols.

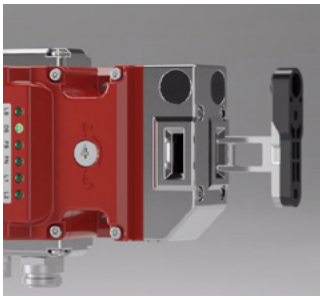
Fully approved by cULus and TUV to the latest international safety standards.

CONFIGURABLE CONTROL FUNCTIONALITY

Low profile design and replaceable pushbuttons reduce risk of damage and lowers maintenance costs.

The lid incorporates up to 6 pilot devices which are factory set to your specification.

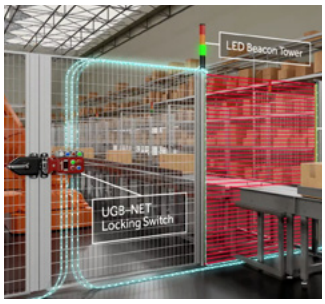
DUAL ACTUATOR ENTRY WITH RFID CODING



UGB-NET has two 2 entry directions for the RFID coded tongue, one on the face and the other on the side. This gives flexibility of mounting for both sliding and hinged doors.

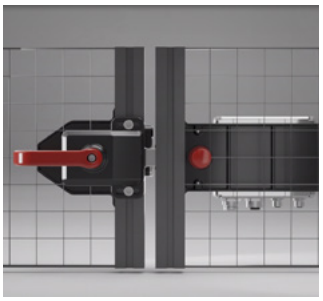
RFID code can be re-taught to a new actuator if required. Doing so will obsolete the old code.

CONNECT FIELD DEVICES TO THE UGB-NET



The UGB-NET is available with up to 4 additional M12 plugs for connecting external devices. These can include emergency stops, light curtains, light towers, enabling pendants, rope switches plus many more. Please specify before ordering as they are factory configured. See page 6.

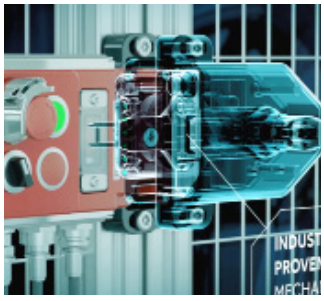
EASY TO MOUNT / OPTIONAL REAR RELEASE



The UGB-NET has a choice of sliding and rotary handles, both with optional rear release functionality.

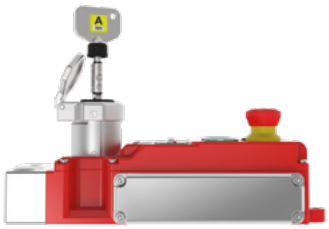
The external mounting holes make it quick and easy to install.

RELIABLE MECHANICAL INTERLOCKING



The robust, industry proven cam system provides a high level of anti-tamper and a holding force of up to 3000N on a sliding handle, and up to 10000N on a rotary handle.

CODED RELEASE KEY



The UGB-NET incorporates a coded key that can be released once the machine has stopped.

The key can then be taken inside the hazardous area to prevent inadvertant start-ups.

EMERGENCY STOP AND PROTECTION SHROUD

If the protruding nature of the E-Stop is a concern, the UGB-NET is available with a button shroud for increased protection from external impact.

CUSTOMISATION

The UGB-NET is compact and highly configurable. The lid incorporates up to 6 x 22mm pilot devices that are factory configured for your convenience. See page 9 for ordering information.

PUSH BUTTONS

· Contacts 1NO.
· Choice of 5 colours; red, blue, green, yellow, white.

LAMPS

· Choice of 5 colours; red, blue, green, yellow, white.

EMERGENCY STOP

· Contacts 2NC.

SELECTOR SWITCH

· Contacts 1NO maintained.

REPLACEABLE LID

The UGB-NET has been designed with a replaceable lid, resulting in lower maintenance costs.

CHOOSE YOUR REQUIRED PROTOCOL (FACTORY CONFIGURED)

Choosing your protocol is usually determined by your machine's software architecture.
· PROFIsafe
· CIP Safety

EtherNet/IP
CIP Safety

CIP Safety – short for "Common Industrial Protocol" – is designed to provide fail-safe communication between different nodes on a safety network.

PROFINET
PROFIsafe

PROFIsafe is an additional software layer that provides functional safety over the bus in PROFINET networks.

PROFIsafe will take care of the functional safety portion of communications.

CHOOSE YOUR PREFERED HANDLE ARRANGEMENT

· All handles are available in either painted die-cast or mirror polished 316 stainless-steel.
· If you have opted for the UGB-NET with rear release, you will need one of the rear handles below.
· It is important you that you specify if your guard is left or right hand opening.
· Handles supplied in left-hand or right-hand depending on your requirements. See page 14 for part numbers.

FRONT ROTARY HANDLE
(RIGHT-HAND SHOWN)

FRONT SLIDING HANDLE
(RIGHT-HAND SHOWN)

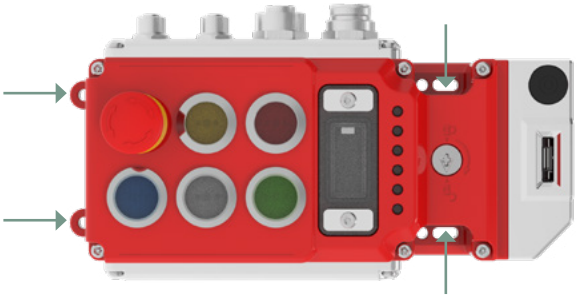
REAR ROTARY HANDLE

REAR SLIDING HANDLE

EASE OF INSTALLATION

The UGB-NET has been designed for quick and easy installation. Networking your safety reduces the number of components, less wiring, fewer cabinets, faster installation, and faster commissioning.

EXTERNAL MOUNTING HOLES



UGB-NET features external mounting holes make it quick and easy to install. No need to remove the lid during installation.

The fixings are made from metal, ensuring a firm mounting that can withstand external impact.

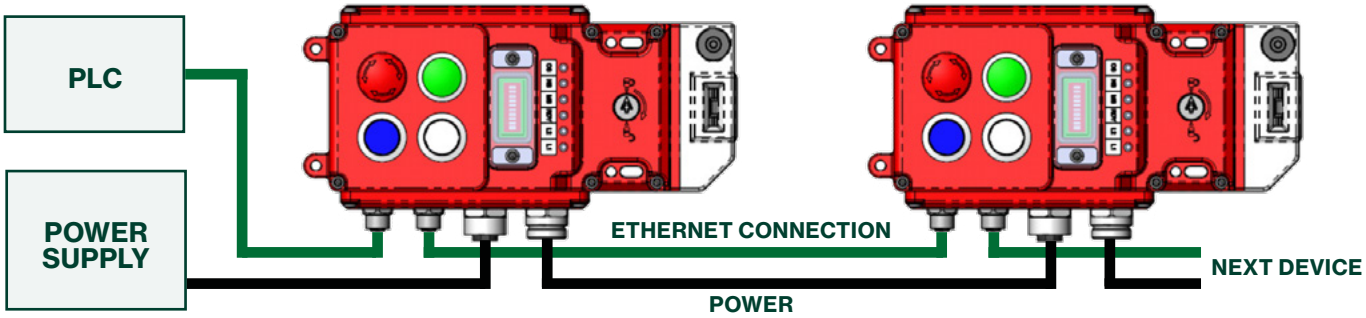
EASILY ACCESSABLE DIP SWITCHES

Easily accessible DIP switches, by way of removing the polycarbonate cover.

Set your network address post installation.

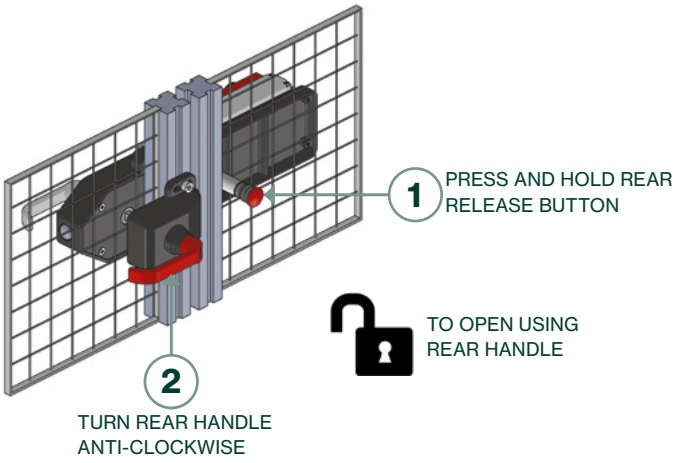
CONNECT MULTIPLE UNITS

Simple power in / out and data in / out makes connectivity quick and efficient. Data can pass 2-ways over industrial ethernet, so no need to wire back to the PLC from the last unit.

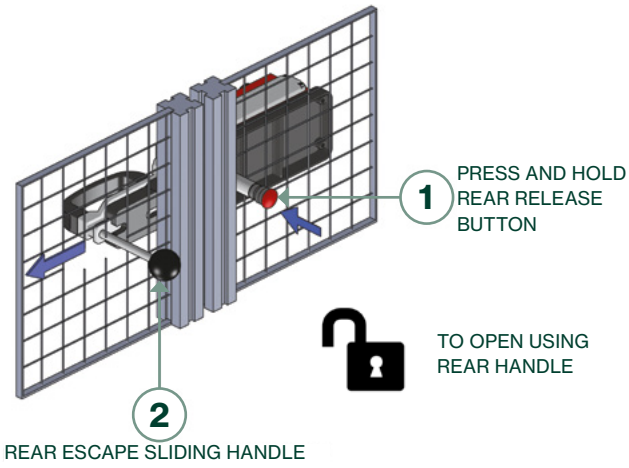


REAR RELEASE FUNCTIONALITY

The UGB-NET is available with rear release functionality granting the operator a means of escape from the hazardous area. Depending on your handle arrangement, the UGB-NET requires a simple 2-step process to overide the solenoid (and trapped key if used) and unlatch the actuator.



REAR ROTARY HANDLE



REAR SLIDING HANDLE

REAR ESCAPE APPLICATION EXAMPLE

Robot cells are a great example of when rear release functionality is required.

Robots can cause serious harm should they come into contact with a person. In the unfortunate event that an inadvertent start-up happens, immediate escape from the hazardous area is required.

RFID CODED TONGUE

RFID coded tongue meets the requirements of Type 4 high level coding in accordance with EN ISO 14119.

If you don't want to use a handle accessory, the actuator can be removed for greater felxibility when mounting to the guard.

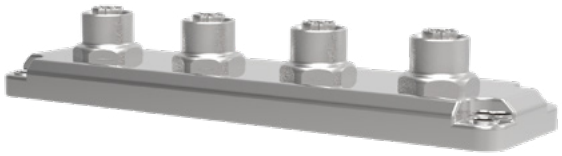
If you lose or break the actuator, the re-teach technology can pair with a new actuator (no need to replace the entire unit). Only one actuator will work at a time.

Robust 316 stainless steel construction.

ADDITIONAL CONTROL AND CONNECTIVITY

The UGB-NET is compatible with safe and non-safe external devices. Products such as light curtains, beacons, enabling pendants can be added to your UGB-NET's network via additional M12 connectors. These are configured at the factory for a plug-and-play solution. Additional control functionality can be added via the expandable module. Please contact IDEM Safety Switches directly for ordering details.

FIELD DEVICE CONNECTOR PLATE



If you require additional connectivity, a connector plate can be purchased. It is available with 1, 2, 3 or 4 M12 plugs depending on your requirement. Factory assembled and configured.

POPULAR PRODUCTS CONNECTED TO THE UGB-NET

LIGHT CURTAINS / SCANNERS

LED TOWERS

ENABLING PENDANTS

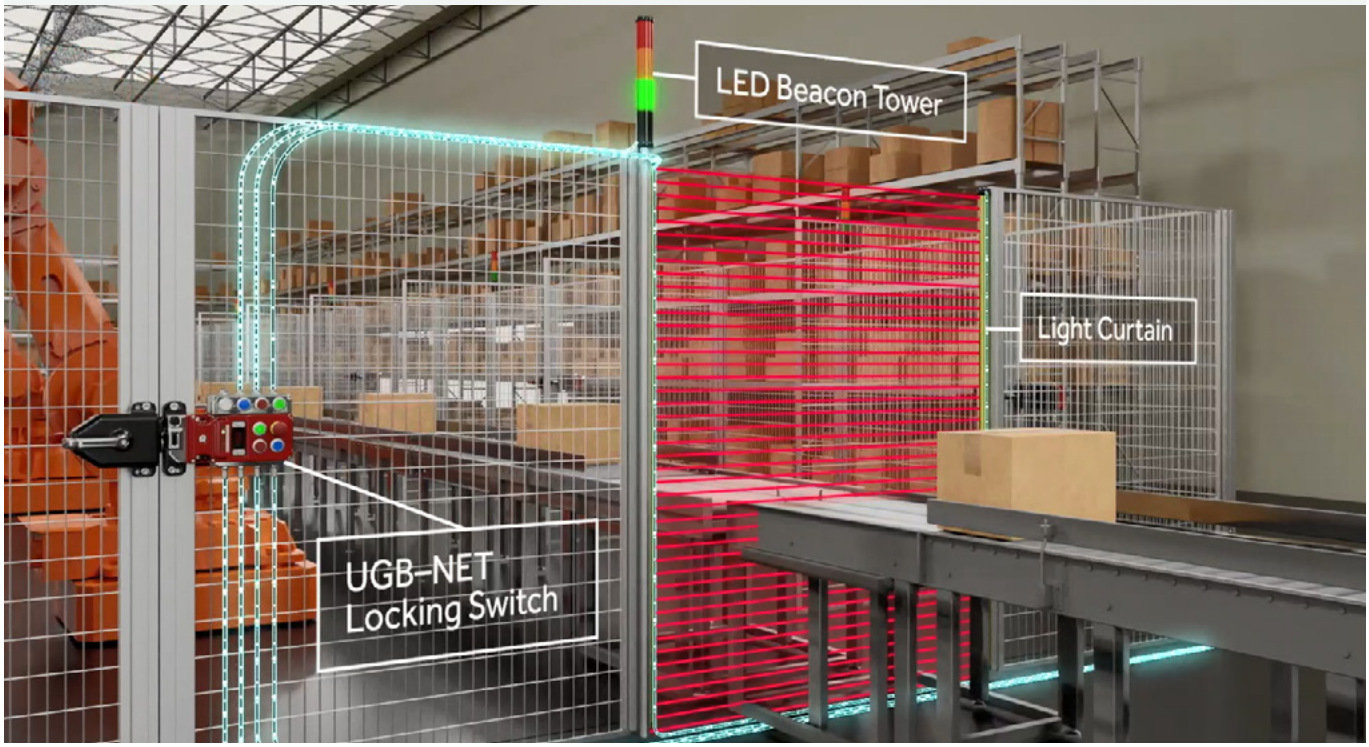
SAFETY ROPE PULLS

LOCKING SWITCHES

TRAPPED KEY

APPLICATION EXAMPLE

Modern day factories require flexible safety solutions that can adapt to many different guarding requirements. Warehouse automation applications are a great example of this, often requiring a mixture of part- and full-body access. The use of light curtains, LED beacon towers and rope pull switches are some of the more commonly used safety devices used in Intralogistic applications. Incorporating these products into the UGB-NET's industrial network will save on wiring, safety I/O requirements at the panel and improve the overall diagnostics.



UGB-NET WITH CODED RELEASE KEY

The UGB-NET is available with a coded mechanical personnel key that is trapped when the guard is closed, and the machine is running. Requesting entry then energises the solenoid, allowing the key to be removed.

Removal of the key unlocks the gate, permitting access. The operator can then take the personnel key inside, ensuring no inadvertent startups can occur whilst working in the hazardous area.

ORDERING YOUR CODED KEY

Each key code letter has a unique colour associated with it (as shown in the table).

- **Thousands of key codes available**
- **Custom key labels available on request**

Yellow		White		Green		Blue	
A101	A111	B201	B211	C301	C311	D401	D411
A102	A112	B202	B212	C302	C312	D402	D412
A103	A113	B203	B213	C303	C313	D403	D413
A104	A114	B204	B214	C304	C314	D404	D414
A105	A115	B205	B215	C305	C315	D405	D415
A106	A116	B206	B216	C306	C316	D406	D416
A107	A117	B207	B217	C307	C317	D407	D417
A108	A118	B208	B218	C308	C318	D408	D418
A109	A119	B209	B219	C309	C319	D409	D419
A110	A120	B210	B220	C310	C320	D410	D420

ORDERING A UNIQUELY CODED KEY

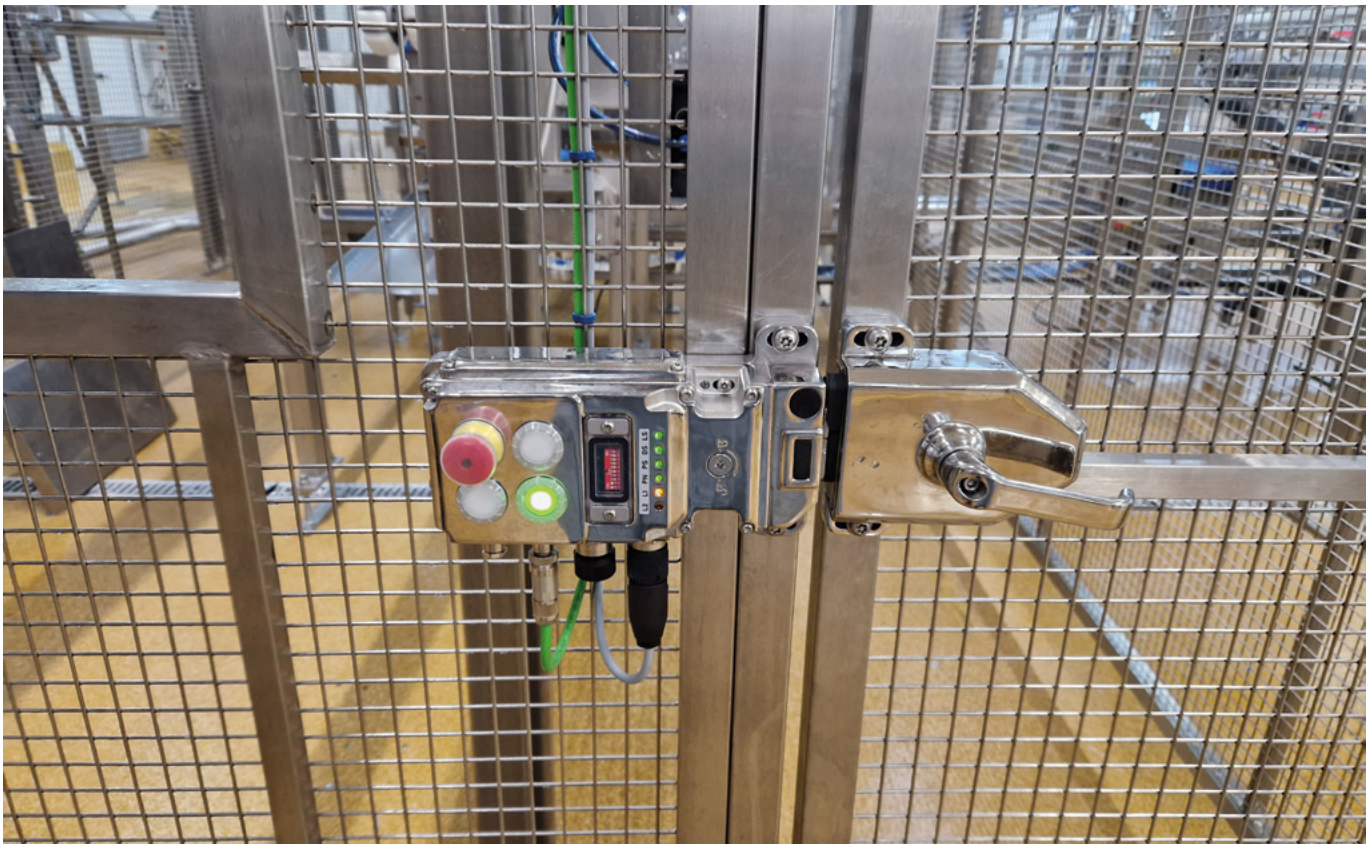
Uniquely coded keys available on request. These types of keys come with a key management/tracking service to ensure strict access to replacements.

APPLICATION EXAMPLE

The personnel key feature is predominantly used to reduce the risk of inadvertent startups whilst operating inside the hazardous area. The key can be in conjunction with IDEM's isolation switch to enable features such as robot teach modes and activating manual modes on production lines. This dual purpose encourages the user to take the personnel key with them whilst operating inside hazardous areas.

UGB-NET-SS TESTED TO IP69K

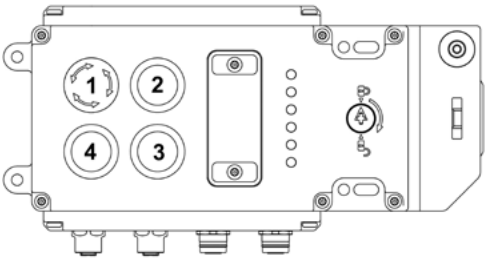
The UGB-NET-SS is the only network enabled safety device on the market with IP69K rating. The housing is manufactured using mirror polished 316 stainless steel, closed with double-seal gaskets and the buttons are protected using transparent silicone covers.

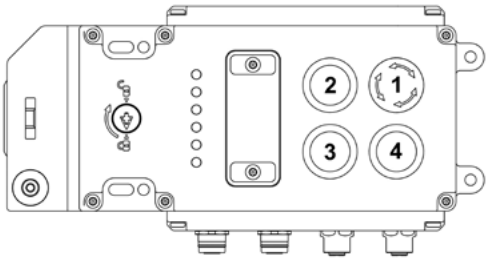


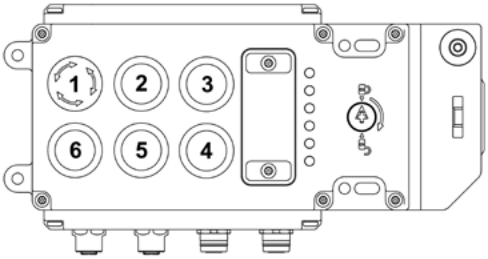
To order the UGB-NET-SS, please see pages 12-13

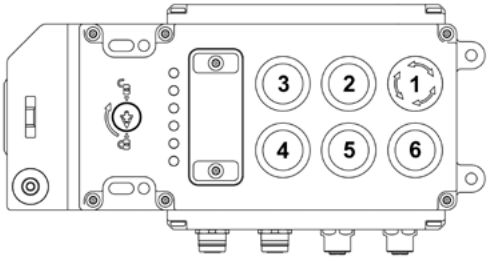
UGB-NET PILOT DEVICE LAYOUT

The UGB-NET is available with 4 or 6 customisable 22mm pilot devices. A plastic blanking plug (x) is used to seal any unused positions. When ordering, please confirm the position of the pilot devices via the part number as shown in the diagram below. The E-Stop (if used) can only be fitted in position 1.









RIGHT HANDED | LEFT HANDED

UGB-NET ORDERING EXAMPLE

UGB-NET-M-PS (Right Hand) PROFIsafe. Note: E-Stop (if used) can only be fitted in position “1”.
To include: 1 x Illuminated Emergency Stop + 1 x RED Illuminated Push Button + 1 x GREEN Lamp + 1 x Illuminated Selector Switch + 1 x YELLOW Illuminated Push Button + 1 x WHITE Lamp

528201 – 1 E – 2BR – 3LG – 4S – 5BY – 6LW

- 528201 → Sales Number (See P10-13)
- 1 E → Position on Lid
- 2BR → Control Device Code Illuminated Push Button
- 3LG → Lens Colour RED

Illuminated Emergency Stop	
Contacts: 2NC	
Control Device Code	Note
E	E-Stop can only be fitted into Position 1 on Lid

Illuminated Sector Switch	
Control Device Code	Colour Code
	1NO Maintained
S	

Illuminated Push Buttons		
Contacts: 1NO		
Control Device Code	Colour Code	Colour of Lens
B	R	
	B	
	G	
	Y	
	W	

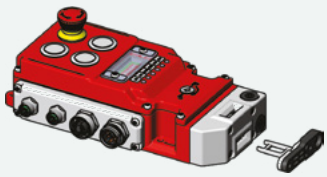
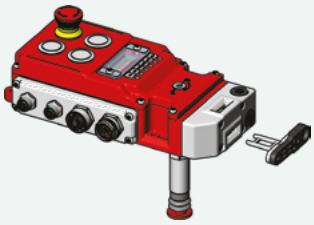
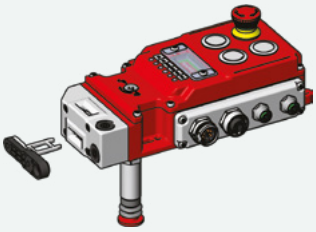
Lamps		
Control Device Code	Colour Code	Colour of Lens
L	R	
	B	
	G	
	Y	
	W	

Blanking Plug	
Code	Description
X	Plastic Plug used to seal any unused positions

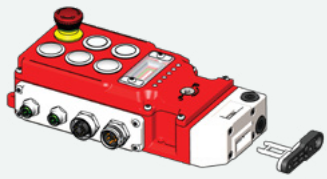
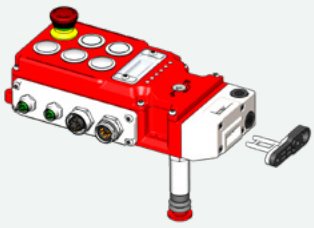
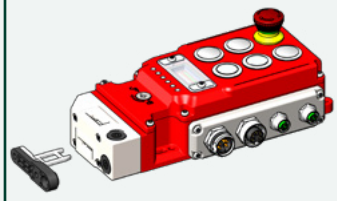
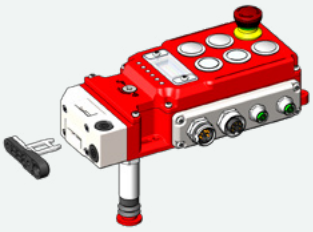
For additional connectivity (shown on page 6), please contact us directly.

CATALOGUE NUMBERS

UGB-NET DIE-CAST (PROFISAFE) 4-STATION

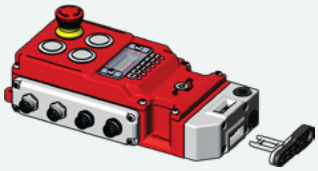
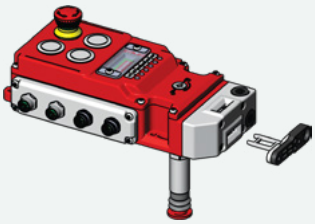
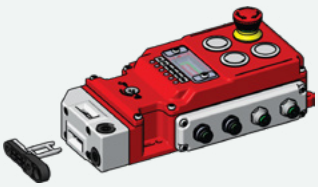
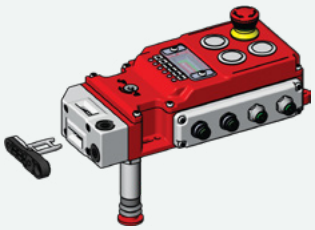
			
UGB-NET-M-PS (Right Hand)	UGB-NET-M-PS-RR (Right Hand)	UGB-NET-M-PS (Left Hand)	UGB-NET-M-PS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors
4 x Control Devices: Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 528001	**Sales Number:** (Auxiliary Release) 528002	**Sales Number:** (Auxiliary Release) 528005	**Sales Number:** (Auxiliary Release) 528006
Sales Number: (No Auxiliary Release) 528003	**Sales Number:** (No Auxiliary Release) 528004	**Sales Number:** (No Auxiliary Release) 528007	**Sales Number:** (No Auxiliary Release) 528008
Sales Number: 528009 (Trapped Key) 528013 (Trapped Key + Aux. Release)	**Sales Number:** 528010 (Trapped Key) 528014 (Trapped Key + Aux. Release)	**Sales Number:** 528011 (Trapped Key) 52815 (Trapped Key + Aux. Release)	**Sales Number:** 528012 (Trapped Key) 528016 (Trapped Key + Aux. Release)

UGB-NET DIE-CAST (PROFISAFE) 6-STATION

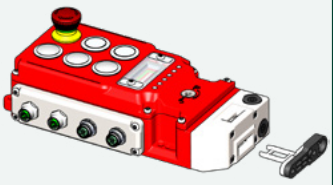
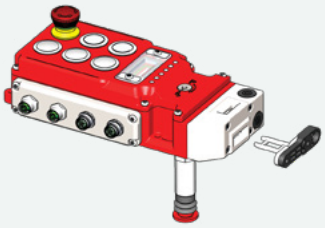
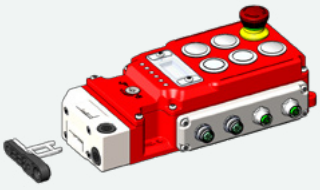
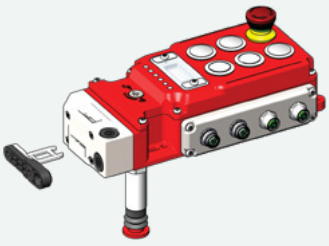
			
UGB-NET-M-PS (Right Hand)	UGB-NET-M-PS-RR (Right Hand)	UGB-NET-M-PS (Left Hand)	UGB-NET-M-PS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors
6 x Control Devices: Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 528201	**Sales Number:** (Auxiliary Release) 528202	**Sales Number:** (Auxiliary Release) 528205	**Sales Number:** (Auxiliary Release) 528206
Sales Number: (No Auxiliary Release) 528203	**Sales Number:** (No Auxiliary Release) 528204	**Sales Number:** (No Auxiliary Release) 528207	**Sales Number:** (No Auxiliary Release) 528208
Sales Number: (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available

CATALOGUE NUMBERS

UGB-NET DIE-CAST (CIP SAFETY) 4-STATION

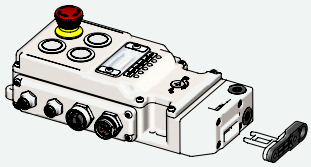
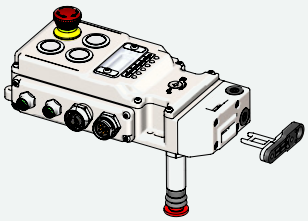
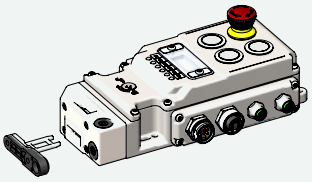
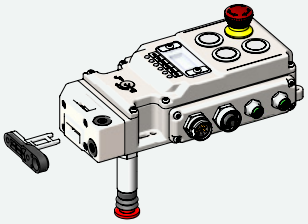
			
UGB-NET-M-CS (Right Hand)	UGB-NET-M-CS-RR (Right Hand)	UGB-NET-M-CS (Left Hand)	UGB-NET-M-CS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors
4 x Control Devices: Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 528101	**Sales Number:** (Auxiliary Release) 528102	**Sales Number:** (Auxiliary Release) 528105	**Sales Number:** (Auxiliary Release) 528106
Sales Number: (No Auxiliary Release) 528103	**Sales Number:** (No Auxiliary Release) 528104	**Sales Number:** (No Auxiliary Release) 528107	**Sales Number:** (No Auxiliary Release) 528108
Sales Number: 528109 (Trapped Key) 528113 (Trapped Key + Aux. Release)	**Sales Number:** 528110 (Trapped Key) 528114 (Trapped Key + Aux. Release)	**Sales Number:** 528111 (Trapped Key) 528115 (Trapped Key + Aux. Release)	**Sales Number:** 528112 (Trapped Key) 528116 (Trapped Key + Aux. Release)

UGB-NET DIE-CAST (CIP SAFETY) 6-STATION

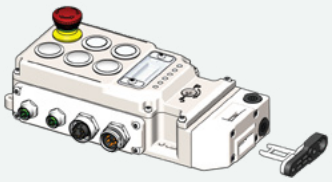
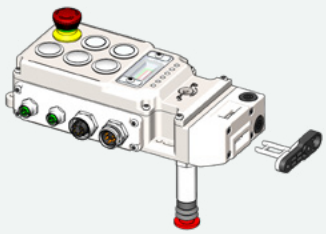
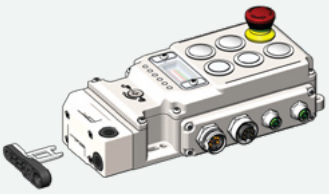
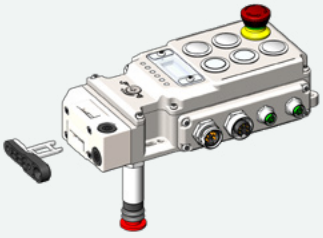
			
UGB-NET-M-CS (Right Hand)	UGB-NET-M-CS-RR (Right Hand)	UGB-NET-M-CS (Left Hand)	UGB-NET-M-CS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors
6 x Control Devices: Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 528301	**Sales Number:** (Auxiliary Release) 528302	**Sales Number:** (Auxiliary Release) 528305	**Sales Number:** (Auxiliary Release) 528306
Sales Number: (No Auxiliary Release) 528303	**Sales Number:** (No Auxiliary Release) 528304	**Sales Number:** (No Auxiliary Release) 528307	**Sales Number:** (No Auxiliary Release) 528308
Sales Number: (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available

CATALOGUE NUMBERS

UGB-NET 316 STAINLESS STEEL (PROFISAFE) 4-STATION

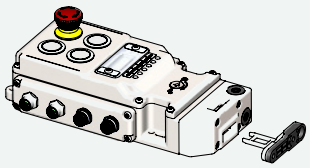
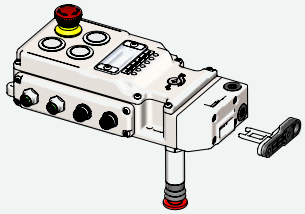
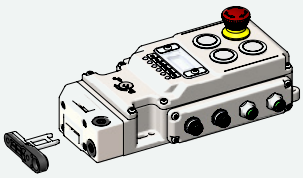
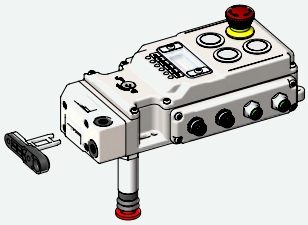
			
UGB-NET-SS-PS (Right Hand)	UGB-NET-SS-PS-RR (Right Hand)	UGB-NET-SS-PS (Left Hand)	UGB-NET-SS-PS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors
4 x Control Devices: Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 529001	**Sales Number:** (Auxiliary Release) 529002	**Sales Number:** (Auxiliary Release) 529005	**Sales Number:** (Auxiliary Release) 529006
Sales Number: (No Auxiliary Release) 529003	**Sales Number:** (No Auxiliary Release) 529004	**Sales Number:** (No Auxiliary Release) 529007	**Sales Number:** (No Auxiliary Release) 529008
Sales Number: 529009 (Trapped Key) 529013 (Trapped Key + Aux. Release)	**Sales Number:** 529010 (Trapped Key) 529014 (Trapped Key + Aux. Release)	**Sales Number:** 529011 (Trapped Key) 529015 (Trapped Key + Aux. Release)	**Sales Number:** 529012 (Trapped Key) 529016 (Trapped Key + Aux. Release)

UGB-NET 316 STAINLESS STEEL (PROFISAFE) 6-STATION

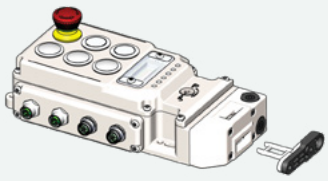
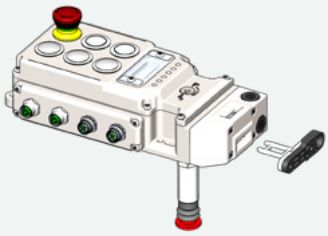
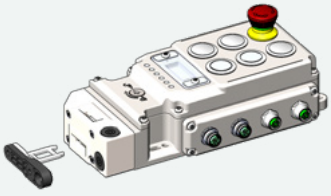
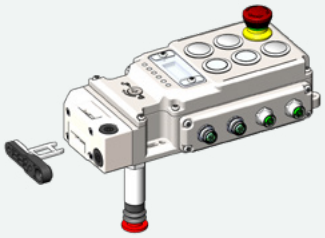
			
UGB-NET-SS-PS (Right Hand)	UGB-NET-SS-PS-RR (Right Hand)	UGB-NET-SS-PS (Left Hand)	UGB-NET-SS-PS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors	**Connectors:** 2 x M12 Data Connectors 2 x 7/8" Power (24Vdc Connectors
6 x Control Devices: Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 529201	**Sales Number:** (Auxiliary Release) 529202	**Sales Number:** (Auxiliary Release) 529205	**Sales Number:** (Auxiliary Release) 529206
Sales Number: (No Auxiliary Release) 529203	**Sales Number:** (No Auxiliary Release) 529204	**Sales Number:** (No Auxiliary Release) 529207	**Sales Number:** (No Auxiliary Release) 529208
Sales Number: (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available

CATALOGUE NUMBERS

UGB-NET DIE-CAST (CIP SAFETY) 4-STATION

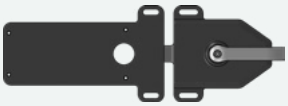
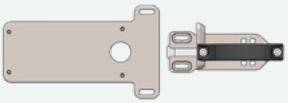
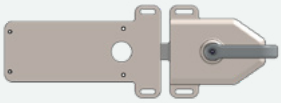
			
UGB-NET-SS-CS (Right Hand)	UGB-NET-SS-CS-RR (Right Hand)	UGB-NET-SS-CS (Left Hand)	UGB-NET-SS-CS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors
4 x Control Devices: Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information	**4 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 529101	**Sales Number:** (Auxiliary Release) 529102	**Sales Number:** (Auxiliary Release) 529105	**Sales Number:** (Auxiliary Release) 529106
Sales Number: (No Auxiliary Release) 529103	**Sales Number:** (No Auxiliary Release) 529104	**Sales Number:** (No Auxiliary Release) 529107	**Sales Number:** (No Auxiliary Release) 529108
Sales Number: 529109 (Trapped Key) 529113 (Trapped Key + Aux. Release)	**Sales Number:** 529110 (Trapped Key) 529114 (Trapped Key + Aux. Release)	**Sales Number:** 529111 (Trapped Key) 529115 (Trapped Key + Aux. Release)	**Sales Number:** 529112 (Trapped Key) 529116 (Trapped Key + Aux. Release)

UGB-NET DIE-CAST (CIP SAFETY) 6-STATION

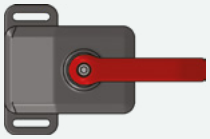
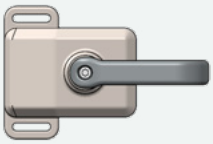
			
UGB-NET-SS-CS (Right Hand)	UGB-NET-SS-CS-RR (Right Hand)	UGB-NET-SS-CS (Left Hand)	UGB-NET-SS-CS-RR (Left Hand)
Connectors: 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors	**Connectors:** 2 x M12 Data Connectors 2 x M12 Power (24Vdc) Connectors
6 x Control Devices: Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information	**6 x Control Devices:** Refer to page 9 for ordering information
Sales Number: (Auxiliary Release) 529301	**Sales Number:** (Auxiliary Release) 529302	**Sales Number:** (Auxiliary Release) 529305	**Sales Number:** (Auxiliary Release) 529306
Sales Number: (No Auxiliary Release) 529303	**Sales Number:** (No Auxiliary Release) 529304	**Sales Number:** (No Auxiliary Release) 529307	**Sales Number:** (No Auxiliary Release) 529308
Sales Number: (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available	**Sales Number:** (With Trapped Key) Currently Not Available

CATALOGUE NUMBERS

HANDLES AND MOUNTING PLATE ACCESSORIES

			
SLIDING HANDLE WITH MOUNTING PLATE	ROTARY HANDLE WITH MOUNTING PLATE	SLIDING HANDLE WITH MOUNTING PLATE	ROTARY HANDLE WITH MOUNTING PLATE
Material: Painted Die-Cast	**Material:** Painted Die-Cast	**Material:** 316 Stainless Steel	**Material:** 316 Stainless Steel
Sales Number (Right + Left Hand): 527006	**Sales Number (Right Hand):** 527007-R	**Sales Number (Right + Left Hand):** 522006	**Sales Number (Right Hand):** 522007-R
	Sales Number (Left Hand): 527007-L		**Sales Number (Left Hand):** 522007-L

REAR ESCAPE HANDLE ACCESSORIES

		
SLIDING REAR HANDLE	ROTARY REAR HANDLE	ROTARY REAR HANDLE
Material: Stainless Steel Rod / Plastic Knob	**Material:** Painted Die-Cast	**Material:** 316 Stainless Steel
Sales Number: 210005	**Sales Number (Right Hand):** 527005-R	**Sales Number (Right Hand):** 522005-R
	Sales Number (Left Hand): 527005-L	**Sales Number (Left Hand):** 522005-L

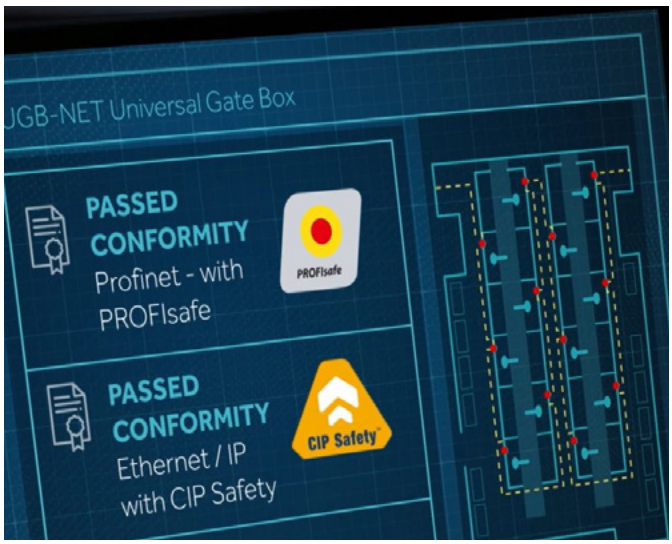
BRACKET FOR MODULAR GUARDING

The UGB-NET is fully compatible with modular guarding through the use of a mounting bracket.

Contact the office for further information.

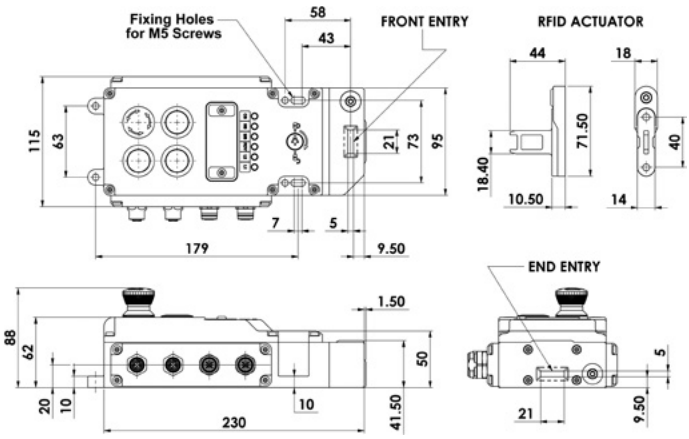
TECHNICAL SPECIFICATION

Technical Data	
Supply Voltage	24Vdc (+/- 10%) SELV/PELV
Power Consumption	1A (max)
Connector Option A PROFInet / PROFIsafe	Data: 2x M12 D Code 4 Pin Power: 2x 7/8" 5 Pin
Connector Option B Ethernet I/P CIP Safety	Data: 2x M12 D Code 4 Pin Power: 2x M12 A Code 5 Pin
Safety Outputs	CIP Safety or PROFIsafe
Performance Level / Category	PL e/Cat 4
Rated Insulation Voltage	250V
Holding Force (ISO14119)	Fmax: 3000N, Fzh: 2307N
Body Material	Die-cast painted red or Stainless Steel 316
Head/Actuator Material	Polished Stainless Steel 316
Enclosure Protection	IP65 / IP69K
Operating Temperature	-25C +40C

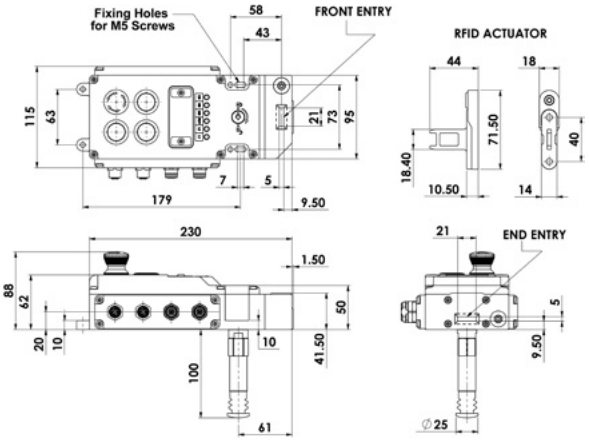


TECHNICAL DRAWINGS

See below UGB-NET technical drawings. For more in-depth technical information please visit idemsafety.com to find the full data sheet.



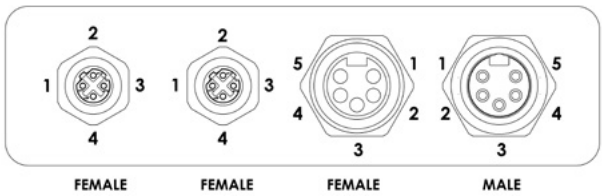
UGB-NET



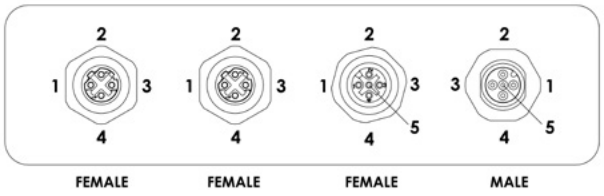
UGB-NET-RR

CONNECTION PLATE

See default connectivity layouts below. If you have a different requirement, these can be configured to your specification.



Power - PROFINET/ PROFIsafe		
Port C FEMALE 7/8" 5-Pin	Port D MALE 7/8" 5-Pin	Function
1	1	0V dc
2	2	0V dc
3	3	Earth (Case)
4	4	+24 dc supply
5	5	+24 dc supply



Power - Ethernet/IP CIP Safety		
Port C M12 FEMALE 5-Pin A Code	Port D M12 MALE Pin-5 A Code	Function
1	1	+24 dc supply
2	2	0V dc
3	3	0V dc
4	4	+24 dc supply
5	5	Earth (Case)

IDEM SAFETY SWITCHES LTD

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