



Product Service

# CERTIFICATE

No. Z10 15 10 80346 008

**Holder of Certificate:** **Fortress Interlocks Ltd**2 Inverclyde Drive  
Wolverhampton  
West Midlands WV4 6FB  
UNITED KINGDOM**Factory(ies):** 80346**Certification Mark:****Product:** **Safety components  
Safety Interlocks****Model(s):** **amGard Pro  
For nomenclature see attachment****Parameters:** Temperature range: +5...+40 °C (indoor)  
-25...+40 °C (in- and outdoor)  
mechanical parts up to 80°C**Tested according to:** EN ISO 13849-1:2008 (Cat.4 PL e)  
EN ISO 13849-2:2012  
ISO 14119:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** FW85442T**Valid until:** 2020-10-04**Date,** 2015-11-23

( Jürgen Blum )

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**ATTACHMENT TO CERTIFICATE****No. Z10 15 10 80346 008****Nomenclature of amGard Pro**

xx	x	xx	xx	EKxx	SKxxx	AKxxx	xx	xxx	xxxxxxxx	Bxxx	xxxx
1	1a	2	3	4	5	6	7	7a	8	9	10

**1.) Actuator**

<b>MA</b>	AM Handle
<b>MI</b>	AM Handle with Internal Release
<b>TA</b>	AT Tongue
<b>TK</b>	Short AT Tongue
<b>TN</b>	Slidebar without a spring
<b>TS</b>	Slidebar with a return spring
<b>TI</b>	Slidebar with internal handle but no return spring
<b>TM</b>	Slidebar with Internal handle c/w TK Short Tongue
<b>TG</b>	Slidebar with Internal handle for GM
<b>TF</b>	Slidebar with Internal handle c/w spacer behind the knob
<b>EN</b>	proHandle, no Internal Release
<b>EH</b>	proHandle
<b>EI</b>	proIR Handle to allow emergency release (only to be used with I6 or I7 head).

**1a) Handing**

<b>1</b>	Front Facing
<b>2</b>	Left Hand
<b>3</b>	Rear Facing
<b>4</b>	Right Hand



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## 2.) Head Module

C6	To terminate assemblies without heads
M6	proAM Head
M7	proAM Head c/w Drop Down Lockout
M8	proAM Head c/w Lock-Out Clip
T6	proAT Head
T7	proAT Head c/w Drop Down Lockout
T8	proAT Head c/w ATL Lock-Out Clip
I6	proIR Head (only works in conjunction with EI handle)
I7	proIR Head c/w drop down lockout (only works in conjunction with EI handle)

## 3.) Push IR

R1	Key Reset (up to 40mm panel thickness)
R2	Key Reset (up to 60mm panel thickness)
R3	Key Reset (up to 80mm panel thickness)
R4	Key Reset (variable length - for panel thickness over 80mm and up to 1m)
R6	Pull Reset (up to 40mm panel thickness)
R7	Pull Reset (up to 60mm panel thickness)
R8	Pull Reset (up to 80mm panel thickness)
R9	Pull Reset (variable length for panel thickness over 80mm and up to 1m)
RW	Front Reset no key (up to 40mm panel thickness)
RX	Front Reset no key (up to 60mm panel thickness)
RY	Front Reset no key (up to 80mm panel thickness)
RZ	Front Reset no key (variable length for panel thickness over 80mm up to 1m)



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### 4.) Extracted Key Adaptor

Lx	Standard Lock
Rx	Releasing Lock (must be used if a PushIR or EI Handle and Head used).
x1	Standard Lock no dustcover CLIN
x2	Standard Lock with dustcover CLIS
x3	Standard Lock with padlockable dustcover CLIL
x6	Masterable Lock no dustcover MLIN
x7	Masterable Lock with dustcover MLIS
x8	Masterable Lock with padlockable dustcover MLIL

### 5.) Safety Key Adaptor

Lxx	Standard Lock
Rxx	Releasing Lock (must be used if a PushIR or EI Handle and Head used).
x1 x	Standard Lock no dustcover CLIN
x2 x	Standard Lock with dustcover CLIS
x3 x	Standard Lock with padlockable dustcover CLIL
x6 x	Masterable Lock no dustcover MLIN
x7 x	Masterable Lock with dustcover MLIS
x8x	Masterable Lock with padlockable dustcover MLIL
xxX	1 – 9 No. of Safety Lock Adaptors required

### 6.) Access Key Adaptor

Lxx	Standard Lock
Rxx	Releasing Lock (must be used if a PushIR or EI Handle and Head used).
x1 x	Standard Lock no dustcover CLIN
x2 x	Standard Lock with dustcover CLIS
x3 x	Standard Lock with padlockable dustcover CLIL
x6 x	Masterable Lock no dustcover MLIN
x7 x	Masterable Lock with dustcover MLIS
x8x	Masterable Lock with padlockable dustcover MLIL
xxX	1 – 9 No. of Safety Lock Adaptors required



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### 7.) proBody Unit

<b>SL</b>	Short Lok Body
<b>SR</b>	Short Lok Body - Releasing (must be used if a pushIR or EI handle and head used).
<b>LL</b>	Long Lok Body
<b>LR</b>	Long Lok Body - Releasing (must be used if a pushIR or EI handle and head used).
<b>ST</b>	Stop Body
<b>EX</b>	EU Explosion Stop Body
<b>UX</b>	US Explosion Stop Body
<b>FT</b>	To Terminate non-switch configurations



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7a) **proBody Unit Options**

0xx	No Voltage (eg Foot)
1xx	110V
2xx	230V
4xx	24V
5xx	100V
6xx	115V
7xx	48V
8xx	ASi
Sxx	110v Solenoid / 24v Control (LOK only)
Cxx	110v Control / 24v Solenoid (LOK only)
x0x	Stop/EXP/UXP
x1x	PTU - Key Reset
x2x	PTU - Knob Reset
x3x	PTU - Screwdriver Reset
x6x	PTL (24v, 110v & ASi only)
xx1	Std & Sourcing
xx2	Std & Sinking
xx3	Std & Sourcing (3 x NC)
xx4	Std & Sourcing (Y&G LEDS)
xx6	Un-Monitored Sol & Sourcing
xx7	Un-Monitored Sol & Sourcing (Y&G LEDS)
xx8	Std & Sourcing, Sol (1NO, 1NC) Head (1NO, 1 NC)





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#### 8.) proOption Pod or proLok+ Body Options

<b>BK0x</b>	Stand alone Pod with no holes on top of pod case (stand alone unit)
<b>BK1x</b>	Pod with one hole on top of pod case for fitting to proStop Body
<b>BK2x</b>	Pod with two holes on top of pod case for fitting to proLOK Body
<b>BKx1</b>	Standard Lock no dustcover CLIN
<b>BKx2</b>	Standard Lock with dustcover CLIS
<b>BKx3</b>	Standard Lock with padlockable dustcover CLIL
<b>BKx6</b>	Masterable Lock no dustcover MLIN
<b>BKx7</b>	Masterable Lock with dustcover MLIS
<b>BKx8</b>	Masterable Lock with padlockable dustcover MLIL
<b>B0xxxxx</b>	Stand alone Pod with No holes on top of pod case (stand-alone unit)
<b>B1xxxxx</b>	Pod with one hole on top of pod case for fitting to proStop Body
<b>B2xxxxx</b>	Pod with two holes on top of pod case for fitting to proLOK Body
<b>L0xxxxx</b>	proLok+ Body switch information
<b>0</b>	Blank
<b>1</b>	Red Lamp
<b>2</b>	Yellow Lamp
<b>3</b>	Green Lamp
<b>6</b>	Blue Lamp
<b>7</b>	White Lamp
<b>E</b>	E-Stop (twist reset)
<b>H</b>	E-Stop (with additional monitoring contacts, twist reset)
<b>P</b>	E-Stop (pull reset)
<b>U</b>	E-Stop (illuminated twist reset)
<b>L</b>	Latching selector switch (illuminated)
<b>M</b>	Momentary selector switch (illuminated)
<b>V</b>	Latching selector switch (1 NO, 1 NC)
<b>A</b>	Latching key switch (90 degree)
<b>R</b>	Red illuminated push button non latching
<b>Y</b>	Yellow illuminated push button non latching



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<b>G</b>	Green illuminated push button non latching
<b>B</b>	Blue illuminated push button non latching
<b>W</b>	White illuminated push button non latching
<b>K</b>	Black non illuminated push button non latching
<b>N0xxxxx</b>	Standalone ProfiSafe POD
<b>N1xxxxx</b>	ProfiSafe POD for use with ProStop
<b>N2xxxxx</b>	ProfiSafe POD for use with ProLOK
<b>xxxxxxN</b>	No additional switch required
<b>xxxxxxC</b>	Coded Magnet - Left Hand
<b>xxxxxxD</b>	Coded Magnet - Right Hand
<b>xxxxxxS</b>	RFID - Left Hand
<b>xxxxxxT</b>	RFID - Right Hand

## 9.) Keyswitch Option Pod &amp; ASi Option Pod

<b>K2x</b>	Pod with two holes on top of pod case for fitting to proLOK Body
<b>Kx1</b>	Standard Lock no dustcover CLIN
<b>Kx2</b>	Standard Lock with dustcover CLIS
<b>Kx3</b>	Standard Lock with padlockable dustcover CLIL
<b>Kx6</b>	Masterable Lock no dustcover MLIN
<b>Kx7</b>	Masterable Lock with dustcover MLIS
<b>Kx8</b>	Masterable Lock with padlockable dustcover MLIL
<b>0</b>	Blank
<b>1</b>	Red Lamp
<b>2</b>	Yellow Lamp
<b>3</b>	Green Lamp
<b>6</b>	Blue Lamp
<b>7</b>	White Lamp
<b>E</b>	E-Stop (twist reset)
<b>H</b>	E-Stop (with additional monitoring contacts, twist reset)
<b>P</b>	E-Stop (pull reset)
<b>U</b>	E-Stop (illuminated twist reset)





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<b>L</b>	Latching selector switch (illuminated)
<b>M</b>	Momentary selector switch (illuminated)
<b>V</b>	Latching selector switch (1 NO, 1 NC)
<b>A</b>	Latching key switch (90 degree)
<b>R</b>	Red illuminated push button non latching
<b>Y</b>	Yellow illuminated push button non latching
<b>G</b>	Green illuminated push button non latching
<b>B</b>	Blue illuminated push button non latching
<b>W</b>	White illuminated push button non latching
<b>K</b>	Black non illuminated push button non latching
<b>xxxxxxN</b>	No additional switch required
<b>xxxxxxC</b>	Coded Magnet - Left Hand
<b>xxxxxxD</b>	Coded Magnet - Right Hand
<b>xxxxxxS</b>	RFID - Left Hand
<b>xxxxxxT</b>	RFID - Right Hand
<b>A1_</b>	ASi Option pod with Control only PCB
<b>A2_</b>	ASi Option pod with Safety only PCB
<b>A3_</b>	ASi Option pod with 1 Safety and 1 Control PCB
<b>A4_</b>	ASi Option pod with 2 Safety only PCB
<b>A5_</b>	ASi Option pod with 1 Control and 2 Safety PCB
<b>A6_</b>	ASi Option pod with 3 Safety only PCB
<b>A7_</b>	ASi Option pod with 1 Control and 3 Safety PCB



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**No. Z10 15 10 80346 008****10.) Quick Disconnect Connector Options**

<b>XXXX</b>	Left Hand QD/Right Hand QD
<b>00</b>	No Connector
<b>D1</b>	PG9 5 Pin Connector
<b>D2</b>	12 Pin Male Connector
<b>D3</b>	8 Pin Micro Connector
<b>D4</b>	7 Pin Mini Connector
<b>D5</b>	5 Pin Micro Connector
<b>D6</b>	14 Pin Quick Disconnect
<b>D7</b>	10 Pin Quick Disconnect
<b>D8</b>	12 Pin Eurofast Quick Disconnect
<b>D9</b>	Turck 12 Pin Connector
<b>E1</b>	Turck 4 Pin Connector
<b>E2</b>	8 Pin Male Connector
<b>PFxx</b>	QD connectors for use with ProfiSafe interface

## Zertifizierungsvertrag

Grundlage für die Zertifikatserteilung ist die Prüf- und Zertifizierungsordnung von TÜV SÜD Product Service.

Mit Erhalt des Zertifikates erkennt der Zertifikatsinhaber die jeweils gültige Fassung der Prüf- und Zertifizierungsordnung an ([www.tuev-sued.de/ps\\_regulations](http://www.tuev-sued.de/ps_regulations)) und wird somit Partner im Zertifiziersystem von TÜV SÜD Product Service.

### Prinzipielle Voraussetzung für die Gültigkeit des Zertifikates:

- Gültigkeit der zitierten normativen Prüfgrundlage(n) ist gegeben
- und zusätzlich bei Zertifikaten mit Berechtigung zur Verwendung eines Prüfzeichens bzw. bei Zertifikaten für QM-Systeme:
- Voraussetzungen für vorschriftsmäßige Fertigung werden eingehalten.
- Die Fertigungs- bzw. Betriebsstätten werden regelmäßig überwacht.

## Certification contract

Certification is based on the TÜV SÜD Product Service Testing and Certification Regulations.

On receipt of the certificate the certificate holder agrees to the current version of the Testing and Certification Regulations ([www.tuev-sued.de/ps\\_regulations](http://www.tuev-sued.de/ps_regulations)) and thus becomes partner in the TÜV SÜD Product Service Certification System.

### Requirements for the validity of the certificate in principle:

- Validity of the quoted test standard(s)
- In addition for certificates with the right to use a certification mark and for QM certificates:
- Conditions for an adequate manufacturing are maintained
  - Regular surveillance of the facility is performed

Akkreditierungen / Benennungen (Status 14.10.2013) /  
Accreditations / notifications (as of 2013-10-14)

## Deutschland / Germany

Produktsicherheitsgesetz (ProdSG) /  
Product Safety Act (ProdSG)

## Europa / Europe

- Niederspannungsrichtlinie 2006/95/EG
- Spielzeugrichtlinie 2009/48/EG
- Richtlinie für aktive medizinische Implantate 90/385/EWG
- Richtlinie für Medizinprodukte 93/42/EWG
- Richtlinie für In-vitro-Diagnostika 98/79/EG
- Richtlinie für Gasverbrauchseinrichtungen 2009/142/EG
- Richtlinie für persönliche Schutzausrüstungen 89/686/EWG
- EMV-Richtlinie 2004/108/EG
- Richtlinie für Sportboote 94/25/EG + 2003/44/EG
- Richtlinie für Maschinen 2006/42/EG
- Richtlinie für Ex-Schutz Geräte 94/9/EG
- Low Voltage Directive 2006/95/EC
- Toys Directive 2009/48/EC
- Directive for Active Implantable Medical Devices 90/385/EEC
- Directive for Medical Devices 93/42/EEC
- Directive on In Vitro Diagnostic Medical Devices 98/79/EC
- Directive for Gas Appliances 2009/142/EC
- Directive for Personal Protective Equipment 89/686/EEC
- EMC Directive 2004/108/EC
- Directive for Recreational Craft 94/25/EC + 2003/44/EC
- Directive for Machinery 2006/42/EC
- Directive for Ex Safe Equipment 94/9/EC
- ENEC Agreement for luminaires, household and IT equipment

## USA

- Nationally Recognized Testing Laboratory (NRTL) to 29 CFR 1910.7 by OSHA
- Accredited for FDA 510(k) Third Party Review
- Conformity Assessment Body to the MRA for Medical Devices; FDA QSR Reg Inspections, FDA 510(k) Third Party Review

## Asien-Pazifik Region / Asia Pacific

- Recognized Certification Body to Electrical Products (Safety) Regulation; Hong Kong
- Konformitätsbewertungsstelle / Conformity Assessment Body to the MRA for Medical Devices; Australien / Australia
- Konformitätsbewertungsstelle / Conformity Assessment Body to the MRA for Medical Devices; Neuseeland / New Zealand

## Weltweit / Worldwide

- NCB im CB-Scheme des IECEE / NCB in the CB Scheme of IECEE
- ExCB im IECEX-Scheme des IECEE / ExCB in the IECEX Scheme of IECEE
- Zertifizierstellen durch DAkkS akkreditiert  
DE-ZE-11321-01, DE-ZM-11321-09 und DE-ZM-11321-01.  
Certification Bodies accredited by DAkkS  
DE-ZE-11321-01, DE-ZM-11321-09 and DE-ZM-11321-01.