



Product Service

CERTIFICATE

No. Z10 080346 0021 Rev. 00

Parameters:	Ambient Temperature:	-20°C to +60°C (solenoids) -20°C to +80°C (switches)
	Ingress Protection:	IP 67 & IP69K
	Mechanical Live: B10d (for all amGard S40 Elements):	1,000,000 operations 5,000,000 operations

Tested according to:	EN ISO 13849-1:2015 (Cat 4, PL e)
	EN ISO 13849-2:2012
	ISO 14119:2013

Factory(ies):	080346
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Model(s)	amGard Pro
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Nomenclature of amGard Pro

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

With:

1 Actuator

MA	AM Handle standard
MI	AM Handle with Internal Lever
TA	AT Tongue standard (62.5mm)
TK	Shortened AT Tongue (53.5mm)
TN	TA Tongue Slidebar without a spring
TS	TA Tongue Slidebar with a return spring
TI	TA Tongue Slidebar with Internal Handle but no return spring
TM	TK Tongue Slidebar with Internal Handle and protruding lockout
TG	TK Tongue Slidebar with Internal Handle
TF	TA Tongue Slidebar with fixed Internal Handle
EN	proHandle with external Access Handle and Red Internal Handle
EH	proHandle with external Access Handle but no Internal Handle
EI	proIR Handle with external Access Handle and Red Internal Handle to allow for Internal Escape Release (only to be used with I6, I7, A6 or A7 head)
SA	AT Tongue for Slimline S6 head (34.5mm)
SN	SA Tongue Slidebar without a spring
SS	SA Tongue Slidebar with a return spring
SI	SA Tongue Slidebar with Internal Handle but no return spring
SF	SA Tongue Slidebar with fixed Internal Handle
SD	Hand operated sprung actuator
HS	Short Reach Hinged handle with SA Tongue for front-facing Slimline S6 head
HL	Long Reach Hinged handle with SA Tongue for front-facing Slimline S6 head



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7 Electrical Switching Unit

SL	Short LOK Solenoid Body – Standard
SR	Short LOK Solenoid Body – Releasing style (must be used if a Push IR, EI Handle or I6, I7, A6, A7 Head has been used to ensure Escape Release function is correct)
LL	Long LOK Solenoid Body – Standard
LR	Long LOK Solenoid Body – Releasing style (must be used if a Push IR, EI Handle or I6, I7, A6, A7 Head has been used to ensure Escape Release function is correct)
ZL	Slimline LOK Solenoid Body – Standard
ZR	Slimline LOK Solenoid Body – Releasing style (must be used if a Push IR, EI Handle or I6, I7, A6, A7 Head has been used to ensure Escape Release function is correct)
ST	STOP Safety Switch Body – Standard
FT	Foot Adaptor – To terminate mechanical configurations with no Electrical Switching unit

7a Electrical Switching Unit Options

Voltage Options	
0xx	No Voltage (for FT Foot Adaptors only)
1xx	110V
2xx	230V
4xx	24V
5xx	100V
6xx	115V
7xx	48V
8xx	ASi Network Enabled
Sxx	Split Voltage unit - 110V Solenoid / 24V Control (LOK only)
Cxx	Split Voltage unit - 24V Solenoid / 100V Control (LOK only)
Pxx	proNet Network Enabled unit (for use with N type Option Pods)
Solenoid and Switch type	
x0x	STOP Safety Switch (ST / EX / UX)
x1x	Power-To-Unlock (PTU) – With Key Override
x2x	Power-To-Unlock (PTU) – With Knob Override
x3x	Power-To-Unlock (PTU) – With Screwdriver Override
x6x	Power-To-Lock (PTL) – With Solenoid Monitor Only (24V, 110V & ASi only)
x7x	Power-To-Lock (PTL) – With Solenoid Monitor and Safety (ZL, ZR only)
Switching type	

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xx1	Standard & Sourcing
xx2	Standard & Sinking
xx3	Standard & Sourcing (with 3 x Normally Closed switches)
xx4	Standard & Sourcing (with Yellow and Green LEDs)
xx6	Un-Monitored Solenoid & Sourcing
xx7	Un-Monitored Solenoid & Sourcing (with Yellow and Green LEDs)
xx8	Standard & Sourcing – Solenoid switches 1 NO 1NC, Head switches 1NO 1NC

8 Option Pod or proLOK+ Long LOK Options

Keyswitch Option Pod types	
BK0x	Standalone Keyswitch Option Pod (with no holes on top of POD enclosure)
BK1x	Keyswitch Option Pod (with one hole on top of POD enclosure for fitment to proSTOP Safety switch unit)
BK2x	Keyswitch Option Pod (with two hole on top of POD enclosure for fitment to SL, SR, LL or LR proLOK Solenoid unit)
BKx1	Keyswitch Option Pod – with Standard Lock style, no Dustcover (CLIN)
BKx2	Keyswitch Option Pod – with Standard Lock style and Dustcover (CLIS)
BKx3	Keyswitch Option Pod – with Standard Lock style and Padlockable Dustcover (CLIL)
BKx6	Keyswitch Option Pod – with Masterable Lock style, no Dustcover (CLIN)
BKx7	Keyswitch Option Pod – with Masterable Lock style and Dustcover (CLIS)
BKx8	Keyswitch Option Pod – with Masterable Lock style and Padlockable Dustcover (CLIL)
Control Option Pod types	
B0xxxx	Standalone Option Pod (with no holes on top of POD enclosure)
B1xxxx	Option Pod (with one hole on top of POD enclosure for fitment to proSTOP Safety switch unit)
B2xxxx	Option Pod (with two holes on top of POD enclosure for fitment to SL, SR, LL or LR proLOK Solenoid unit)
Y0xxx0N	Standalone Slimline Option Pod (with no holes on top of POD enclosure) – With Pushbutton selections wired with Common Power Supply
Y1xxx0N	Slimline Option Pod (with one hole on top of POD enclosure for fitment to proSTOP Safety switch unit or ZL, ZR Slimline LOK unit) – With Pushbutton selections wired with Common Power Supply
W0xxx0N	Standalone Slimline Option Pod (with no holes on top of POD enclosure) – With Pushbutton selections Individually Wired (volt-free contacts)
W1xxx0N	Slimline Option Pod (with one hole on top of POD enclosure for fitment to proSTOP Safety switch unit or ZL, ZR Slimline LOK unit) – With Pushbutton selections Individually Wired (volt-free contacts)



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L0xxxxx	proLOK+ Long Lok unit information
N0xxxxN	Standalone proNet Option Pod with PROFINET and PROFIsafe (with no holes on top of POD enclosure)
N1xxxxN	proNet Option Pod with PROFINET and PROFIsafe (with one hole on top of POD enclosure for fitment to proSTOP Safety switch unit)
N2xxxxN	proNet Option Pod with PROFINET and PROFIsafe (with two holes on top of POD enclosure for fitment to SL, SR, LL or LR proLOK Solenoid unit)
N3xxxxN	Standalone proNet Option Pod with Ethernet/IP and CIP Safety (with no holes on top of POD enclosure)
N4xxxxN	proNet Option Pod with Ethernet/IP and CIP Safety (with one hole on top of POD enclosure for fitment to proSTOP Safety switch unit)
N5xxxxN	proNet Option Pod with Ethernet/IP and CIP Safety (with two holes on top of POD enclosure for fitment to SL, SR, LL or LR proLOK Solenoid unit)
Pushbutton and Control Elements	
0	Blanking Plug (No Pushbutton selected)
1	Red Lamp
2	Yellow Lamp
3	Green Lamp
6	Blue Lamp
7	White Lamp
E	Emergency Stop – twist-to-reset
H	Emergency Stop – twist-to-reset with additional monitoring contacts
P	Emergency Stop – pull-to-reset
U	Emergency Stop – illuminated twist-to-reset
L	Latching Selector Switch – illuminated
M	Momentary Selector Switch – illuminated
V	Latching Selector Switch – 1 NO, 1 NC
A	Latching Keyswitch – 90 degree
R	Red Illuminated Pushbutton – non-latching
Y	Yellow Illuminated Pushbutton – non-latching
G	Green Illuminated Pushbutton – non-latching
B	Blue Illuminated Pushbutton – non-latching
W	White Illuminated Pushbutton – non-latching
K	Black Pushbutton – non-latching
	Non-Contact Switch options (B type Option Pods only)



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xxxxxN	No Non-Contact Switch selected
xxxxxC	Coded Magnet Non-Contact Switch – Left hand orientation
xxxxxD	Coded Magnet Non-Contact Switch – Right hand orientation
xxxxxS	RFID Non-Contact Switch – Left hand orientation
xxxxxT	RFID Non-Contact Switch – Right hand orientation

9 Second Option Pod options (If fitted)

Keyswitch Option Pod types	
BK2x	Keyswitch Option Pod (with two hole on top of POD enclosure for fitment to first assembled Option Pod unit or proLOK+ Long LOK unit)
BKx1	Keyswitch Option Pod – with Standard Lock style, no Dustcover (CLIN)
BKx2	Keyswitch Option Pod – with Standard Lock style and Dustcover (CLIS)
BKx3	Keyswitch Option Pod – with Standard Lock style and Padlockable Dustcover (CLIL)
BKx6	Keyswitch Option Pod – with Masterable Lock style, no Dustcover (CLIN)
BKx7	Keyswitch Option Pod – with Masterable Lock style and Dustcover (CLIS)
BKx8	Keyswitch Option Pod – with Masterable Lock style and Padlockable Dustcover (CLIL)
BA1_	AS-i Option Pod with Control only PCB
BA2_	AS-i Option Pod with Safety only PCB
BA3_	AS-i Option Pod with 1 x Safety and 1 x Control PCB
BA4_	AS-i Option Pod with 2 x Safety only PCB
BA5_	AS-i Option Pod with 1 x Control and 2 x Safety PCB
BA6_	AS-i Option Pod with 3 x Safety only PCB
BA7_	AS-i Option Pod with 1 x Control and 3 x Safety PCB
Control Option Pod types	
B2xxxx	Option Pod (with two holes on top of POD enclosure for fitment to first assembled Option Pod unit or proLOK+ Long LOK unit)
Y1xxx0N	Slimline Option Pod (with one hole on top of POD enclosure for fitment to first assembled Slimline Option Pod unit) – With Pushbutton selections wired with Common Power Supply
W1xxx0N	Slimline Option Pod (with one hole on top of POD enclosure for fitment to first assembled Slimline Option Pod unit) – With Pushbutton selections Individually Wired (volt-free contacts)
N2xxxxN	proNet Option Pod with PROFINET and PROFIsafe (with two holes on top of POD enclosure for fitment to first assembled Option Pod unit or proLOK+ Long LOK unit)
N5xxxxN	proNet Option Pod with Ethernet/IP and CIP Safety (with two holes on top of POD enclosure for fitment to first assembled Option Pod unit or proLOK+ Long LOK unit)



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Pushbutton and Control Elements	
0	Blanking Plug (No Pushbutton selected)
1	Red Lamp
2	Yellow Lamp
3	Green Lamp
6	Blue Lamp
7	White Lamp
E	Emergency Stop – twist-to-reset
H	Emergency Stop – twist-to-reset with additional monitoring contacts
P	Emergency Stop – pull-to-reset
U	Emergency Stop – illuminated twist-to-reset
L	Latching Selector Switch – illuminated
M	Momentary Selector Switch – illuminated
V	Latching Selector Switch – 1 NO, 1 NC
A	Latching Keyswitch – 90 degree
R	Red Illuminated Pushbutton – non-latching
Y	Yellow Illuminated Pushbutton – non-latching
G	Green Illuminated Pushbutton – non-latching
B	Blue Illuminated Pushbutton – non-latching
W	White Illuminated Pushbutton – non-latching
K	Black Pushbutton – non-latching
Non-Contact Switch options (for B type Option Pods only)	
xxxxxxN	No Non-Contact Switch selected
xxxxxxC	Coded Magnet Non-Contact Switch – Left hand orientation
xxxxxxD	Coded Magnet Non-Contact Switch – Right hand orientation
xxxxxxS	RFID Non-Contact Switch – Left hand orientation
xxxxxxT	RFID Non-Contact Switch – Right hand orientation



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10 Quick Disconnect Connector Options

XXXX	Lefthand Connector – Righthand Connector (Righthand Connector, not applicable for STOP, Slimline LOK or Slimline POD units)
00	No Connector
D1	5 Pin, M12 Male Connector
D2	12 Pin, 1-1/18" Male Connector
D3	8 Pin, M12 Male Connector
D4	7 Pin, 1-16" UN2 Male Connector
D5	5 Pin, M12 Male Connector
D6	14 Pin, M16 Male Connector
D7	10 Pin, M12 Male Connector
D8	12 Pin, M12 Male Connector
D9	12 Pin, M23 Male Connector
E1	4 Pin, M12 Male Connector
E2	8 Pin, 1-16" UN2 Male Connector
E3	10 Pin, 1-1/8" Male Connector
E4	19 Pin, 1-1/8" Male Connector
F2	19 Pin, M23 Male Connector
PFxx	proNet Connector Options (for N type Option Pods only)

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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) und wird somit Partner im Zertifiziersystem von TÜV SÜD Product Service.

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.tuv-sud.com/ps_regulations) and thus becomes partner in the TÜV SÜD Product Service Certification System.

认证合约

认证基于 TÜV SÜD 产品服务《测试及认证准则》。获得证书即表明证书持有者接受当前版本的《测试及认证准则》（见 www.tuv-sud.com/ps_regulations）并成为 TÜV SÜD 产品服务认证系统内的合作伙伴。

認証契約

認証は TÜV SÜD Product Service の試験認証規約に基づく。認証書保持者は認証書を受領することにより最新の試験認証規約(www.tuv-sud.com/ps_regulations)に同意したものとします。その結果、TÜV SÜD Product Service 認証システムのパートナーとなる。

Contrato de certificação

A certificação se baseia nos Regulamentos de Testes e Certificação do Grupo TÜV SÜD. Ao receber o certificado, o Fornecedor, titular do certificado concorda com a versão atual dos Regulamentos de Testes e Certificação do Grupo TÜV SÜD (www.tuv-sud.com/ps_regulations) e assim, torna-se parceiro no Sistema de Certificação de Produtos e Serviços TÜV SÜD.

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.

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

维持证书有效性的原则要求：

- 认证所依据标准的有效性
- 此外，对于授权可使用认证标志的证书和质量管理体系证书：
- 保持充分的生产条件
 - 生产场地通过定期的监督

認証書の有効性に関する原則的な要求事項

- 引用している試験規格が有効である
- さらに認証マークの使用を許諾された認証書や品質マネジメント認証書は：
- 適切な製造の条件を維持している
 - 定期的な工場監査を実施している

Requisitos para a validade do certificado (em princípio):

- Validade da(s) norma(s) de ensaio(s) referenciada(s).
- Adicionalmente, para os certificados com o direito ao uso da marca de certificação e para certificados de SG:
- Condições de fabricação adequada estão mantidas.
 - Auditoria de monitoração realizada regularmente.