



Product Service

CERTIFICATE

No. Z10 17 12 80346 017

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 S40
For nomenclature see attachment

Parameters:

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

Tested according to: EN ISO 13849-1:2015 (Cat. 4, PLe)
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.: FW92015T

Valid until: 2023-01-30

Date, 2018-01-31 (Christian Dirmeier)

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Nomenclature of Product amGard S40 Series

S40	xx	x	xx	xx	EKxx	SKxxx	AKxxx	xx	xxx	xxxxxxxx	xxxxxxxx	xx
1	2	2a	3	4	5	6	7	8	8a	9	10	11

1) All S40 Configurations start with the prefix „S40“.

2) Actuator

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

2a.) Handing

1	Front Facing
2	Left Hand Facing
3	Rear Facing
4	Right Hand Facing

3) Head Module

C6	Cap Module – To terminate assemblies without heads
S6	Slimline Head

4) Push IR – Internal Escape Release Module

R2	Push IR with external Key Reset (up to 60mm panel thickness)
R3	Push IR with external Key Reset (up to 80mm panel thickness)
R4	Push IR with external Key Reset (variable length – for panel thickness over 80mm and up to 1000mm)
R7	Push IR with Internal Pull Reset (up to 60mm panel thickness)
R8	Push IR with Internal Pull Reset (up to 80mm panel thickness)
R9	Push IR with Internal Pull Reset (variable length – for panel thickness over 80mm)



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	and up to 1000mm)
RX	Push IR with external Keyless Push Reset (up to 60mm panel thickness)
RY	Push IR with external Keyless Push Reset (up to 80mm panel thickness)
RZ	Push IR with external Keyless Push Reset (variable length – for panel thickness over 80mm and up to 1000mm)

5) Extracted Key Adaptor Module

Lx	Standard EK Adaptor type
Rx	Releasing EK Adaptor type (must be used if a Push IR has been selected to ensure Escape Release function is correct)
x2	Standard Lock style with Dustcover (CLIS)
x3	Standard Lock style with Padlockable Dustcover (CLIL)
x7	Masterable Lock style with Dustcover (MLIS)
x8	Masterable Lock style with Padlockable Dustcover (MLIL)

6) Safety Key Adaptor Module

Lxx	Standard SK Adaptor type
Rxx	Releasing SK Adaptor type (must be used if a Push IR has been selected to ensure Escape Release function is correct)
x2x	Standard Lock style with Dustcover (CLIS)
x3x	Standard Lock style with Padlockable Dustcover (CLIL)
x7x	Masterable Lock style with Dustcover (MLIS)
x8x	Masterable Lock style with Padlockable Dustcover (MLIL)
xxX	1-3 Amount of Safety Key Adaptor Modules required (Note, total of Extracted Key Adaptors, Safety Adaptors and Access Key Adaptors together cannot exceed 3)

7) Access Key Adaptor Module

Lxx	Standard AK Adaptor type
Rxx	Releasing AK Adaptor type (must be used if a Push IR has been selected to ensure Escape Release function is correct)
x2x	Standard Lock style with Dustcover (CLIS)
x3x	Standard Lock style with Padlockable Dustcover (CLIL)
x7x	Masterable Lock style with Dustcover (MLIS)
x8x	Masterable Lock style with Padlockable Dustcover (MLIL)
xxX	1-3 Amount of Safety Key Adaptor Modules required

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	(Note, total of Extracted Key Adaptors, Safety Adaptors and Access Key Adaptors together cannot exceed 3)
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8) Electrical Switching Unit

SL	Slimline S40 LOK Solenoid Body – Standard
SR	Slimline S40 LOK Solenoid Body – Releasing style (must be used if a Push IR has been selected to ensure Escape Release function is correct)
ST	S40 STOP Safety Switch Body
FT	S40 Foot Adaptor – To terminate mechanical configurations with no Electrical Switching unit

8a.) Electrical Switching Unit Options

Voltage Op- tions	0xx	No Voltage (for FT Foot Adaptors only)
	1xx	110V (STOP only)
	2xx	230V (STOP only)
	4xx	24V
Solenoid ty- pe	x0x	STOP Safety Switch
	x1x	Power-To-Unlock (PTU) – With Key Override
	x6x	Power-To-Lock (PTL) – With Solenoid Monitor Only
	x7x	Power-To-Lock (PTL) – With Solenoid Monitor and Safety
Switching type	xx1	Standard & Sourcing
	xx6	Un-Monitored Solenoid & Sourcing

9) Option Pod Options

Control Option Pod types	
B0xxxxxx	Standalone S40 Option Pod (with no holes on top of POD enclosure) – With Pushbutton selections wired with Common Power Supply
B1xxxxxx	S40 Option Pod (with one hole on top of POD enclosure for fitment to S40 STOP Safety switch unit or S40 LOK unit) – With Pushbutton selections wired with Common Power Supply
C0xxxxxx	Standalone S40 Option Pod (with no holes on top of POD enclosure) – With Pushbutton selections Individually Wired (volt-free contacts)
C1xxxxxx	S40 Option Pod (with one hole on top of POD enclosure for fitment to S40 STOP Safety switch unit or S40 LOK unit) – With Pushbutton selections Individually Wired (volt-free contacts)



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Pushbutton and Control Elements	
00	Blanking Plug (No Pushbutton selected)
LR	Red Lamp
LY	Yellow Lamp
LG	Green Lamp
LB	Blue Lamp
LW	White Lamp
EP	Emergency Stop – pull-to-reset, non-illuminated
EI	Emergency Stop – pull-to-reset, illuminated
2E	Latching Selector Switch – illuminated
2F	Momentary Selector Switch – illuminated
K5	Latching Selector Switch with Key
P1	Red Illuminated Pushbutton – non-latching
P2	Yellow Illuminated Pushbutton – non-latching
P3	Green Illuminated Pushbutton – non-latching
P6	Blue Illuminated Pushbutton – non-latching
P7	White Illuminated Pushbutton – non-latching
PB	Black Pushbutton – non-latching

10) Second Option Pod options (If fitted)

Control Option Pod types	
B1xxxxxx	S40 Option Pod (with one hole on top of POD enclosure for fitment to first assembled S40 Option Pod) – With Pushbutton selections wired with Common Power Supply
C1xxxxxx	S40 Option Pod (with one hole on top of POD enclosure for fitment to first assembled S40 Option Pod) – With Pushbutton selections Individually Wired (volt-free contacts)
Pushbutton and Control Elements	
00	Blanking Plug (No Pushbutton selected)
LR	Red Lamp
LY	Yellow Lamp
LG	Green Lamp
LB	Blue Lamp
LW	White Lamp
EP	Emergency Stop – pull-to-reset, non-illuminated
EI	Emergency Stop – pull-to-reset, illuminated



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2E	Latching Selector Switch – illuminated
2F	Momentary Selector Switch – illuminated
K5	Latching Selector Switch with Key
P1	Red Illuminated Pushbutton – non-latching
P2	Yellow Illuminated Pushbutton – non-latching
P3	Green Illuminated Pushbutton – non-latching
P6	Blue Illuminated Pushbutton – non-latching
P7	White Illuminated Pushbutton – non-latching
PB	Black Pushbutton – non-latching

11) Quick Disconnect Connector Options

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