FORTRESS INTERLOCKS

Operating Instructions: AS-Interface

Description

- AS-interface base elements are used when you want to connect all of the features of tGard to an AS-i bus.
- **TEBB4** Element Connect up to 4 inputs, 4 outputs and 1 dual channel safety circuit to the bus in one stack.
- **TEBB8** Element Connect up to 8 inputs, 8 outputs and 2 dual channel safety circuits to the bus in one stack.
- Each node address can handle either 4 inputs and 4 outputs, or 1 dual channel safety circuits; you only get the nodes you need to maximise available bus addresses.
- Extended addressing is used for I/O nodes allowing 62 nodes on a bus; double the number possible on a standard bus.
- Connections are made by the standard M12 5 pin QD.
- Mating cables are available, part no. Cable-_M-TQ1;2,5,10 and 20m lengths.
- Most elements are powered directly from the bus meaning only two wires are necessary to run the whole stack; the Aux power supply is required if a solenoid lock is included in the stack.
- The element takes one bay to house the AS-i electronics and includes the base connection element.

Gard AS-i Base	Technical	Specifications
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Housing Materials	Painted die cast aluminium
Colour	Dark Grey
Ingress Protection	IP65*
Electrical Life	1,000,000 Operations
Connection	M12 5 Pin
Ambient Temperature	-25°C to 40°C (-13°F to 104°F)
AS-i Current	≤135mA
AS-i Supply	26.5 - 31.6V
Aux Current	≤400mA
Aux Supply	24V +/- 10% (PELV or SELV)

*IP protection is to the tGard stack that this module attaches to, when correctly fitted according to installation and maintenance instructions.

Safety Related Data		
Certified	CE marked for	
	AS-i Safety at Work	
Category	Control functionality can be used as part of a PLe/Cat 4/SIL 3 System. tGard Guard lock & switches are suitable for CAT 3/PLd (EN/ISO 13849-1)	

AS-i Profiles				
	IO	ID	ID1	ID2
Safety	7	В	-	F
I/O	7	А	7	7







ETY AT WORK



tGard AS-i Base Element Part Number Options			
Description	Part No.		
Up to 4 inputs, 4 outputs & 1 dual safety circuit	TEBB4		
Up to 8 inputs, 8 outputs & 2 dual safety circuits	TEBB8		

Pin Out

AS-i+	Pin	Connection	Colour (CableM-TQ1)
Aux + (24v)	1	AS-i +	Brown
	2	Aux -	White
	3	AS-i -	Blue
AS-i-	4	Aux +	Black
	5	Earth (optional)	Grey





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