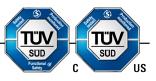
Gard

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.





tGard AS-i Base Technical Specifications			
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	rrent ≤135mA		
AS-i Supply	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 at	aches to, when correctly fitted according to installation and maintenance instructions.		

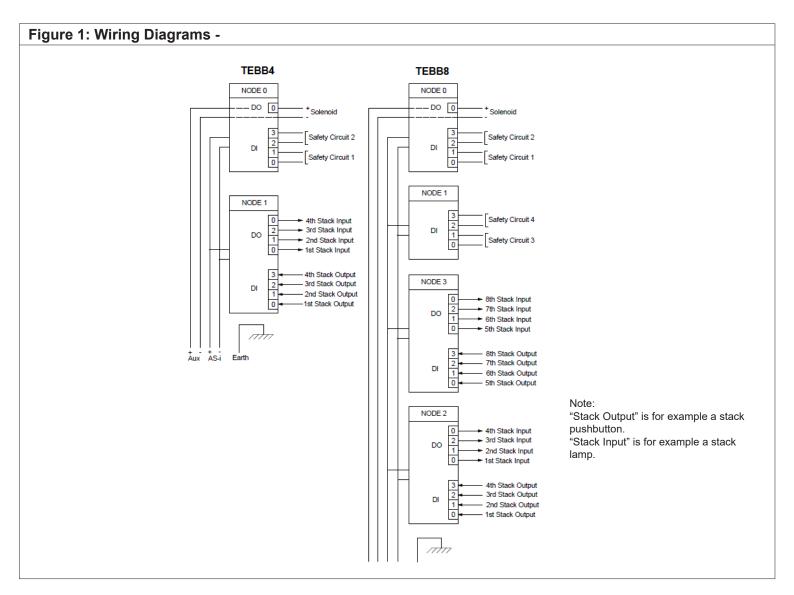
Safety Related Data		
Certified	CE marked for AS-i Safety at Work	
Category	Control functionality can be used as part of a PLe/Cat 4/SIL 3 System. tGard Guard lock & switches are suitable for CAT 3/PLd (EN/ISO 13849-1)	

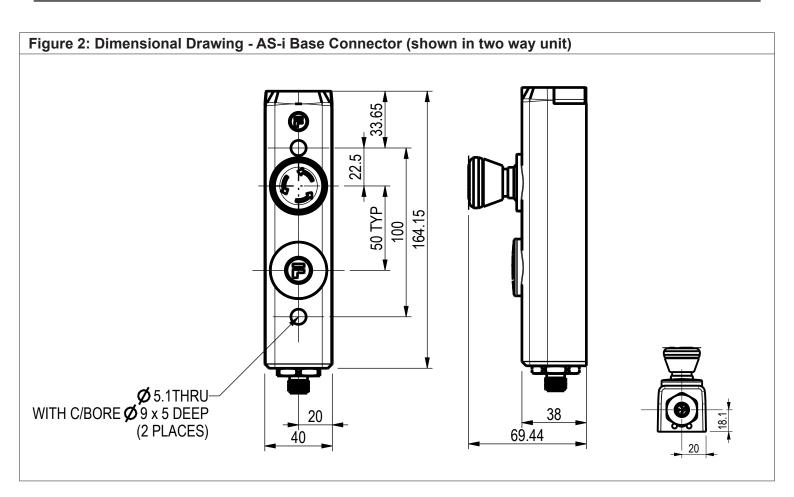
AS-i Profiles					
	IO	ID	ID1	ID2	
Safety	7	В	-	F	
I/O	7	A	7	7	

Operating Instructions: AS-Interface

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 + Aux + (24v) Aux - (0v) AS-i -	Pin	Connection	Colour (CableM-TQ1)
	1	AS-i +	Brown
	2	Aux -	White
	3	AS-i -	Blue
	4	Aux +	Black
	5	Earth (optional)	Grey





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