

GIS880

System 800xA hardware selector



Select I/O is an Ethernet networked, single channel granular I/O system for the ABB Ability™ System 800xA automation platform. Select I/O helps decouple project tasks, minimizes the impact of late changes and supports standardization of I/O cabinetry ensuring automation projects are delivered on-time and under budget. A Signal Conditioning Module (SCM) performs the necessary signal conditioning and powering of the connected field device for one I/O channel.

GIS880 a Generic I/O Module for High Integrity. Certified for SIL3. Use as single or redundant.

Features and benefits

- Distribution of process I/O data between the SCMs and the FCI
- Mechanical locking slider which turns off the power supplies before removal
- Supports hot swap
- Mechanical keying to prevent insertion of wrong module type
- Can be used in hazardous areas
- Certified for SIL3
- LED indicators:
 - Status (S)
 - Primary (P)
- Diagnostics:
 - Hardware error supervision
 - Communication supervision
 - Internal power supervision

General info	
Article number	3BSE075855R1
Type	Generic I/O Module High Integrity
HART	Yes
SOE	Yes
Redundancy	Yes
Hot swap	Yes
High integrity	Yes
Intrinsic safety	N/A
Mechanics	Select I/O

Detailed data	
Diagnostics	- Hardware error supervision - Communication supervision - Internal Power supervision
Power dissipation	0.4 W
Installation in Hazardous Locations	ATEX – II 3G Ex nA/eC IIC T4 Gc Class I, Zone 2, IIC T4 Class I, Div 2, Groups A, B, C, D T4

Environment and certification	
Temperature, Operating	-40°C (-40°F) to +70°C (158°F)
Temperature, Storage	-40°C (-40°F) to +85°C (185°F)
Pollution degree	Degree 2, IEC 60664-1
Functional Safety	IEC 61508 (SIL3), NFPA 72, NFPA 79, NFPA 85, ISO/EN 13849-1 (Category 4, PL e), IEC62061 (SIL3), EN60204-1
Relative humidity	5 to 95% no condensation
Altitude	-1000 to 3000 m, (-100 ... 2000 m for Zone 2/Class I Div 2)
Mechanical operating conditions	IEC 61131-2
EMC	IEC/EN 61000-6-4, IEC/EN 61000-6-2
Overvoltage categories	Category II, IEC 60664-1
Protection class	IP20 according to IEC 60529
CE-marking	Yes
Electrical Safety	IEC/EN 61010-1, IEC 61010-2-201, UL 61010-2-201, CSA C22.2 No. 61010-2-201
Hazardous Area	EN 60079-0, EN60079-7, EN60079-15, UL 12.12.01 / CSA C22.2 No. 213-17
Marine certification	DNV-GL, ABS
Corrosive atmosphere	G3 (ISA-S71.04)
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions	
Width	77.9 mm (3.06 in.)
Depth	108 mm (4.25 in.)
Height	15.8 mm (0.62 in.)
Weight (including base)	76 g (0.17 lbs)

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