

# GIS810

## 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.

The Generic IO Module (GIO) handles the communication between Fieldbus Communication Interface (FCI) and the Signal Conditioning Modules (SCM). It communicates upstream with the FCI using Modulebus, and downstream with up to 16 SCMs. Generic I/O Module. 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
- LED indicators:
  - Status (S)
  - Primary (P)
- Diagnostics:
  - Hardware error supervision
  - Communication supervision
  - Internal power supervision

General info	
Article number	3BSE078740R1
Type	Generic I/O Module
HART	Yes
SOE	Yes
Redundancy	Yes
Hot swap	Yes
High integrity	No
Intrinsic safety	N/A
Mechanics	Select I/O

<b>Detailed data</b>	
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

<b>Environment and certification</b>	
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
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

<b>Dimensions</b>	
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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