

GIS810

ABB Ability™ 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

Detailed data	
Diagnostics	Internal hardware supervision Communication supervision Internal power supervision
Power dissipation	0.4 W
Installation in Hazardous Area/Locations	Yes/Yes

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	Pollution Degree 2 acc. to IEC 60664-1
Relative humidity	5 to 95 %, non-condensation
Altitude	-1000 to 5000 m (restrictions apply)
Mechanical operating conditions	IEC 61131-2
EMC	IEC/EN 61000-6-4, IEC/EN 61000-6-2
Overvoltage categories	Category II acc. to IEC 60664-1
Protection class	IP20 acc. to IEC 60529
CE-marking	Yes
UKCA	Yes
Electrical Safety	IEC/EN 61010-1 UL 61010-1 CSA-C22.2 No. 61010-1-12 IEC/EN 61010-2-201 UL 61010-2-201 CSA C22.2 No. 61010-2-201
Marine certification	DNV, ABS
Corrosive atmosphere	G3
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS
WEEE compliance	EU
Hazardous Area ATEX	II 3G Ex nA IIC T4 Gc II 3G Ex ec IIC T4 Gc II 3G Ex ic nA IIC T4 Gc II 3G Ex ic ec IIC T4 Gc
Hazardous Area IECEx	Available on IPA: II 3G Ex nA IIC T4 Gc II 3G Ex ec IIC T4 Gc II 3G Ex ic nA IIC T4 Gc II 3G Ex ic ec IIC T4 Gc
Hazardous Location US/CAN	cULus CL I, ZN 2, AEx ec IIC T4 Gc, Ex ec IIC T4 Gc X CL I, ZN 2, AEx nA IIC T4 Gc, Ex nA IIC T4 Gc X CL I, DIV 2, Groups A-D T4
Hazardous Area CCC	Ex ec IIC T4 Gc Ex ec ic IIC T4 Gc

Dimensions	
Width	77.9 mm
Depth	108 mm
Height	15.8 mm
Weight (including base)	76 g

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