

DATA SHEET

## PTB810K01

## ABB Ability™ System 800xA® hardware selector



Select I/O is an Ethernet networked, single channel granular I/O system for the ABB Ability<sup>TM</sup> 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 PTB810K01 Power Injection Terminal Block Kit is used for the Select I/O Module Termination Unit (TUS810). Two PTB810s are needed per MTU. Digital output SCMs (DOS810, DOS880, DOS885) and high amp SCMs (DOS885, AIS885) require power injection. (10 pieces per package).

## **Features and benefits**

- Injects 24 V field power to high power SCMs on the MTU
- Can provide up to 20 A.
- Can be used in hazardous areas.
- Hole for each terminal for connecting test probes (for measurements
- Four screws for daisy chain option of the power supply

General info		
Article number	3BSE088182R1	
Туре	Power Injection Terminal Block	
Mechanics	Select I/O	

Detailed data		
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 nA 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	41.4 mm (1.63 in.)	
Depth	72.6 mm (2.86 in.)	
Height	19.2 mm (0.75 in.)	
Weight (including base)	38 g (0.08 lbs)	



solutions.abb/800xA solutions.abb/controlsystems

800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2026 ABB All rights reserved