

I/O Systems - S900 I/O

ABB Ability™ System 800xA® hardware selector



S900 is a remote I/O family designed for applications with hazardous rated areas according to ATEX. The I/O system can be safely located directly in ATEX Zone 1 and 2, saving wiring and signal conditioning cost.

S900 I/O incorporates complete redundant networking capability, including redundancy in power supply, communication interface, and PROFIBUS DP connection.

The main areas of application are the chemical industry, the pharmaceutical industry, and the oil and gas industry. Throughout its proven track record and wide temperature range and coating, the S900 I/O has been used in many areas where durable and long-standing equipment is needed.

Extended diagnostic functions and the use of HART®-compliant field devices in the Fieldbus system reduce the maintenance effort and therefore, lead to savings throughout the service life of the plant.

For updated information regarding System 800xA please visit our 800xA Hardware Selector. In the HW-selector, you can compare different communication modules, AC 800M controllers, S800 IO modules, S900 IO modules, Select IO modules, module termination units, networks equipment, panels, power supplies and voters, and also print your own PDF files or save an outline of all modules in the product area.

<https://800xahardwareselector.com>



Specific feature ¹	AI910B (AI4-B)	AI910N (AI4)	AI910S (AI4-Ex)	AI930B (AI4H-B)
General info				
Article number	3KDE175512L9100	3KDE175513L9100	3KDE175511L9100	3KDE175512L9300
Type	Analog Input			
Number of channels	4			
Signal type	4...20 mA			
HART	No			Yes
SOE	Yes			
Redundancy	No			
Intrinsic safety	Yes	No	Yes	
Mechanics	S900			
Dimensions				
Width	20 mm (0.79 in.)			
Depth	104 mm (4.09 in.)			
Height	104 mm (4.09 in.)			
Weight	0.13 kg (0.29 lbs.)		0.14 kg (0.31 lbs.)	
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: 800xahardwareselector.com



Specific feature ¹	AI930N (AI4H)	AI930S (AI4H-Ex)	AI931B (AI4H-B)	AI931N (AI4H)
General info				
Article number	3KDE175513L9300	3KDE175511L9300	3KDE175512L9310	3KDE175513L9310
Type	Analog Input			
Number of channels	4			
Signal type	4...20 mA			
HART	Yes			
SOE	Yes			
Redundancy	No			
Intrinsic safety	No	Yes		No
Mechanics	S900			
Dimensions				
Width	20 mm (0.79 in.)			
Depth	104 mm (4.09 in.)			
Height	104 mm (4.09 in.)			
Weight	0.135 kg (0.297 lbs.)	0.14 kg (0.30 lbs.)	0.13 kg (0.28 lbs.)	0.125 kg (0.28 lbs.)
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: 800xahardwareselector.com



Specific feature ¹	AI931S (AI4H-Ex)	AI950B (TI4-B)	AI950N (TI4)	AI950S (TI4-Ex)			
General info							
Article number	3KDE175511L9310	3KDE175522L9500	3KDE175523L9500	3KDE175521L9500			
Type	Analog Input						
Number of channels	4						
Signal type	4...20 mA						
HART	Yes						
SOE	Yes						
Redundancy	No						
Intrinsic safety	Yes		No	Yes			
Mechanics	S900						
Dimensions							
Width	20 mm (0.79 in.)						
Depth	104 mm (4.09 in.)						
Height	104 mm (4.09 in.)						
Weight	0.13 kg (0.28 lbs.)	0.135 kg (0.30 lbs.)	0.13 kg (0.29 lbs.)	0.135 kg (0.30 lbs.)			
Environment and certification							
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)						
WEEE compliance	DIRECTIVE/2012/19/EU						

¹ For detailed information on each module, please visit: 800xahardwareselector.com



Specific feature ¹	AO910B (AO4-B)	AO910N (AO4)	AO910S (AO4-Ex)	AO920B (AO4I-B)
General info				
Article number	3KDE175532L9100	3KDE175533L9100	3KDE175531L9100	3KDE175532L9200
Type	Analog Output			
Number of channels	4			
Signal type	4...20 mA	0/4...20 mA for actuators		
HART	No			
SOE	Yes			
Redundancy	No			
Intrinsic safety	Yes	No	Yes	
Mechanics	S900			
Dimensions				
Width	20 mm (0.79 in.)			
Depth	104 mm (4.09 in.)			
Height	104 mm (4.09 in.)			
Weight	0.135 kg (0.30 lbs.)	0.13 kg (0.29 lbs.)	0.135 kg (0.30 lbs.)	0.14 kg (0.31 lbs.)
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: 800xahardwareselector.com



Specific feature ¹	AO920N (AO4I)	AO920S (AO4I-Ex)	AO930B (AO4H-B)	AO930N (AO4H)
General info				
Article number	3KDE175533L9200	3KDE175531L9200	3KDE175532L9300	3KDE175533L9300
Type	Analog Output			
Number of channels	4			
Signal type	0/4...20 mA for actuators	4...20 mA		
HART	No		Yes	
SOE	Yes			
Redundancy	No			
Intrinsic safety	No	Yes		No
Mechanics	S900			
Dimensions				
Width	20 mm (0.79 in.)			
Depth	104 mm (4.09 in.)			
Height	104 mm (4.09 in.)			
Weight	0.135 kg (0.30 lbs.)			0.13 kg (0.28 lbs.)
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: 800xahardwareselector.com