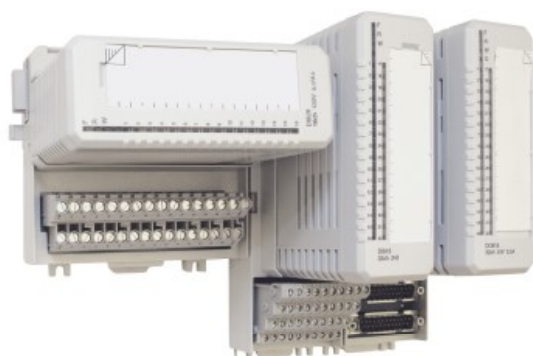


# I/O Systems - S800 I/O

## Freelance hardware selector



S800 I/O is a comprehensive, distributed, and modular process I/O system that communicates with parent controllers over industry-standard fieldbus technology and therefore can be used with a wide range of process controllers from ABB and other vendors. To download a PDF OUTLINE of all modules in this section, or to COMPARE several items, use the options in the upper-right corner of the page.

By permitting installation in the field, close to sensors and actuators, S800 I/O reduces the installation cost by reducing the cost of cabling. And thanks to features such as “hot swap” of modules, “online” reconfiguration, and redundancy options, it contributes to keeping production – and thereby profits – up.

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 I/O modules, S900 I/O modules, Select I/O modules, module termination units, network equipment, panels, power supplies, and voters, and also print your PDF files or save an outline of all modules in the product area.

Below is an outline of the range of different S800 I/O modules available.



| Specific feature <sup>1</sup>        | AI801                      | AI810                                              | AI815                                | AI820                                                |
|--------------------------------------|----------------------------|----------------------------------------------------|--------------------------------------|------------------------------------------------------|
| <b>General info</b>                  |                            |                                                    |                                      |                                                      |
| Article number                       | 3BSE020512R1               | 3BSE008516R1                                       | 3BSE052604R1                         | 3BSE008544R1                                         |
| Type                                 | Analog Input               |                                                    |                                      |                                                      |
| Signal specification                 | 0...20 mA, 4...20 mA       | 0...20mA, 4...20mA, 0...10V, 2...10V               | 0...20 mA, 4...20 mA, 0..5 V, 1..5 V | -20...+20 mA, 0(4)...20 mA, -10...+10 V, 0(2)...10 V |
| Number of channels                   | 8                          |                                                    |                                      | 4                                                    |
| Signal type                          | Unipolar single ended      |                                                    |                                      | Bipolar differential                                 |
| HART                                 | No                         |                                                    | Yes                                  | No                                                   |
| SOE                                  | No                         |                                                    |                                      |                                                      |
| Redundancy                           | No                         |                                                    |                                      |                                                      |
| High integrity                       | No                         |                                                    |                                      |                                                      |
| Intrinsic safety                     | No                         |                                                    |                                      |                                                      |
| Mechanics                            | S800L                      | S800                                               |                                      |                                                      |
| <b>Dimensions</b>                    |                            |                                                    |                                      |                                                      |
| Width                                | 86.1 mm (3.4")             | 45 mm (1.77")                                      |                                      |                                                      |
| Depth                                | 58.5 mm (2.3")             | 102 mm (4.01"), 111 mm (4.37") including connector |                                      |                                                      |
| Height                               | 110 mm (4.33")             | 119 mm (4.7")                                      |                                      |                                                      |
| Weight                               | 0.24 kg (0.53 lbs.)        | 0.2 kg (0.44 lbs.)                                 | 0.23 kg (0.51 lbs.)                  | 0.2 kg (0.44 lbs.)                                   |
| <b>Environment and certification</b> |                            |                                                    |                                      |                                                      |
| RoHS compliance                      | EU RoHS, UAE RoHS, CN RoHS |                                                    |                                      |                                                      |
| WEEE compliance                      | DIRECTIVE/2012/19/EU       |                                                    |                                      |                                                      |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | AI825                                              | AI830A                                                            | AI835A                                                            | AI843                                                         |
|-------------------------------|----------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|
| General info                  |                                                    |                                                                   |                                                                   |                                                               |
| Article number                | 3BSE036456R1                                       | 3BSE040662R1                                                      | 3BSE051306R1                                                      | 3BSE028925R1                                                  |
| Type                          | Analog Input                                       |                                                                   |                                                                   |                                                               |
| Signal specification          | -20..+20 mA, 0(4)..20 mA, -10..+10 V, 0(2)..10V    | 3-wire RTD: Pt100, Cu10, NI100, Ni120 and resistive potentiometer | -30..75 mV linear; TC types B, C, D, E, J, K, L, N, R, S, T and U | -30..75 mVlinear, TC types B, C, E, J, K, L, N, R, S, T and U |
| Number of channels            | 4                                                  | 8                                                                 |                                                                   |                                                               |
| Signal type                   |                                                    | See table in S800 Modules and Termination Units, 3BSE020924       |                                                                   | See table                                                     |
| HART                          | No                                                 |                                                                   |                                                                   |                                                               |
| SOE                           | No                                                 |                                                                   |                                                                   |                                                               |
| Redundancy                    | No                                                 |                                                                   |                                                                   | Yes                                                           |
| High integrity                | No                                                 |                                                                   |                                                                   |                                                               |
| Intrinsic safety              | No                                                 |                                                                   |                                                                   |                                                               |
| Mechanics                     | S800                                               |                                                                   |                                                                   |                                                               |
| Dimensions                    |                                                    |                                                                   |                                                                   |                                                               |
| Width                         | 45 mm (1.77")                                      |                                                                   |                                                                   |                                                               |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                                                                   |                                                                   |                                                               |
| Height                        | 119 mm (4.7")                                      |                                                                   |                                                                   |                                                               |
| Weight                        | 0.22 kg (0.49 lbs.)                                |                                                                   |                                                                   | 0.157 kg (0.35 lbs.)                                          |
| Environment and certification |                                                    |                                                                   |                                                                   |                                                               |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                                                                   |                                                                   |                                                               |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                                                                   |                                                                   |                                                               |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | AI845                                              | AI890              | AI893               | AI895                 |
|-------------------------------|----------------------------------------------------|--------------------|---------------------|-----------------------|
| General info                  |                                                    |                    |                     |                       |
| Article number                | 3BSE023675R1                                       | 3BSC690071R1       | 3BSC690141R1        | 3BSC690086R1          |
| Type                          | Analog Input                                       |                    |                     |                       |
| Signal specification          | 0..20mA, 4..20 mA, 0..5 V, 1..5 V                  | 0...20 mA          | RTD or TC           | 4...20 mA             |
| Number of channels            | 8                                                  |                    |                     |                       |
| Signal type                   | Unipolar single ended                              |                    | Differential        | Unipolar single ended |
| HART                          | Yes                                                | No                 |                     | Yes                   |
| SOE                           | No                                                 |                    |                     |                       |
| Redundancy                    | Yes                                                | No                 |                     |                       |
| High integrity                | No                                                 |                    |                     |                       |
| Intrinsic safety              | No                                                 | Yes                |                     |                       |
| Mechanics                     | S800                                               |                    |                     |                       |
| Dimensions                    |                                                    |                    |                     |                       |
| Width                         | 45 mm (1.77")                                      |                    |                     |                       |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                    |                     |                       |
| Height                        | 119 mm (4.7")                                      |                    |                     |                       |
| Weight                        | 0.23 kg (0.51 lbs.)                                | 0.2 kg (0.44 lbs.) | 0.16 kg (0.35 lbs.) | 0.2 kg (0.44 lbs.)    |
| Environment and certification |                                                    |                    |                     |                       |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                    |                     |                       |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                    |                     |                       |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | AO801                      | AO810V2                                            | AO815               | AO820                                                                    |
|-------------------------------|----------------------------|----------------------------------------------------|---------------------|--------------------------------------------------------------------------|
| General info                  |                            |                                                    |                     |                                                                          |
| Article number                | 3BSE020514R1               | 3BSE038415R1                                       | 3BSE052605R1        | 3BSE008546R1                                                             |
| Type                          | Analog Output              |                                                    |                     |                                                                          |
| Signal specification          | 0... 20 mA, 4...20 mA      | 0..20 mA, 4..20 mA                                 | 4..20 mA            | -20 mA...+20 mA, 0...20 mA, 4...20 mA, -10 V...+10 V, 0...10 V, 2...10 V |
| Number of channels            | 8                          |                                                    |                     | 4                                                                        |
| Signal type                   | Unipolar single ended      |                                                    |                     |                                                                          |
| HART                          | No                         |                                                    | Yes                 | No                                                                       |
| SOE                           | No                         |                                                    |                     |                                                                          |
| Redundancy                    | No                         |                                                    |                     |                                                                          |
| High integrity                | No                         |                                                    |                     |                                                                          |
| Intrinsic safety              | No                         |                                                    |                     |                                                                          |
| Mechanics                     | S800L                      | S800                                               |                     |                                                                          |
| Dimensions                    |                            |                                                    |                     |                                                                          |
| Width                         | 86.1 mm (3.4")             | 45 mm (1.77")                                      |                     |                                                                          |
| Depth                         | 58.5 mm (2.3")             | 102 mm (4.01"), 111 mm (4.37") including connector |                     |                                                                          |
| Height                        | 110 mm (4.33")             | 119 mm (4.7")                                      |                     |                                                                          |
| Weight                        | 0.24 kg (0.53 lbs.)        | 0.18 kg (0.4 lbs.)                                 | 0.21 kg (0.46 lbs.) | 0.18 kg (0.4 lbs.)                                                       |
| Environment and certification |                            |                                                    |                     |                                                                          |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS |                                                    |                     |                                                                          |
| WEEE compliance               | DIRECTIVE/2012/19/EU       |                                                    |                     |                                                                          |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | AO845A                                             | AO890                 | AO895        | DI801               |
|-------------------------------|----------------------------------------------------|-----------------------|--------------|---------------------|
| General info                  |                                                    |                       |              |                     |
| Article number                | 3BSE045584R1                                       | 3BSC690072R1          | 3BSC690087R1 | 3BSE020508R1        |
| Type                          | Analog Output                                      |                       |              | Digital Input       |
| Signal specification          | 4..20 mA                                           | 0..20 mA, 4..20 mA    | 4...20 mA    | 24V d.c.            |
| Number of channels            | 8                                                  |                       |              | 16                  |
| Signal type                   |                                                    | Unipolar single ended |              | Current sinking     |
| HART                          | Yes                                                | No                    | Yes          | No                  |
| SOE                           | No                                                 |                       |              |                     |
| Redundancy                    | Yes                                                | No                    |              |                     |
| High integrity                | No                                                 |                       |              |                     |
| Intrinsic safety              | No                                                 | Yes                   |              | No                  |
| Mechanics                     | S800                                               |                       |              | S800L               |
| Dimensions                    |                                                    |                       |              |                     |
| Width                         | 45 mm (1.77")                                      |                       |              | 86.1 mm (3.4")      |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                       |              | 58.5 mm (2.3")      |
| Height                        | 119 mm (4.7")                                      |                       |              | 110 mm (4.33")      |
| Weight                        | 0.21 kg (0.46 lbs.)                                | 0.2 kg (0.44 lbs.)    |              | 0.24 kg (0.53 lbs.) |
| Environment and certification |                                                    |                       |              |                     |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                       |              |                     |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                       |              |                     |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | DI802                      | DI803                  | DI810                                              | DI811        |
|-------------------------------|----------------------------|------------------------|----------------------------------------------------|--------------|
| General info                  |                            |                        |                                                    |              |
| Article number                | 3BSE022360R1               | 3BSE022362R1           | 3BSE008508R1                                       | 3BSE008552R1 |
| Type                          | Digital Input              |                        |                                                    |              |
| Signal specification          | 120 V a.c., 110 V d.c.     | 230 V a.c., 220 V d.c. | 24 V d.c.                                          | 48 V d.c.    |
| Number of channels            | 8                          |                        | 16                                                 |              |
| Signal type                   | Current sinking            |                        |                                                    |              |
| HART                          | No                         |                        |                                                    |              |
| SOE                           | No                         |                        |                                                    |              |
| Redundancy                    | No                         |                        |                                                    |              |
| High integrity                | No                         |                        |                                                    |              |
| Intrinsic safety              | No                         |                        |                                                    |              |
| Mechanics                     | S800L                      |                        | S800                                               |              |
| Dimensions                    |                            |                        |                                                    |              |
| Width                         | 86.1 mm (3.4")             |                        | 45 mm (1.77")                                      |              |
| Depth                         | 58.5 mm (2.3")             |                        | 102 mm (4.01"), 111 mm (4.37") including connector |              |
| Height                        | 110 mm (4.33")             |                        | 119 mm (4.7")                                      |              |
| Weight                        | 0.24 kg (0.53 lbs.)        |                        | 0.15 kg (0.33 lbs.)                                |              |
| Environment and certification |                            |                        |                                                    |              |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS |                        |                                                    |              |
| WEEE compliance               | DIRECTIVE/2012/19/EU       |                        |                                                    |              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | DI814                                              | DI818           | DI820                   | DI821                  |
|-------------------------------|----------------------------------------------------|-----------------|-------------------------|------------------------|
| General info                  |                                                    |                 |                         |                        |
| Article number                | 3BUR001454R1                                       | 3BSE069052R1    | 3BSE008512R1            | 3BSE008550R1           |
| Type                          | Digital Input                                      |                 |                         |                        |
| Signal specification          | 24 V d.c.                                          |                 | 120 V a.c. / 110 V d.c. | 230 V a.c., 220 V d.c. |
| Number of channels            | 16                                                 | 32              | 8                       |                        |
| Signal type                   | Current sourcing                                   | Current sinking |                         |                        |
| HART                          | No                                                 |                 |                         |                        |
| SOE                           | No                                                 |                 |                         |                        |
| Redundancy                    | No                                                 |                 |                         |                        |
| High integrity                | No                                                 |                 |                         |                        |
| Intrinsic safety              | No                                                 |                 |                         |                        |
| Mechanics                     | S800                                               |                 |                         |                        |
| Dimensions                    |                                                    |                 |                         |                        |
| Width                         | 45 mm (1.77")                                      |                 |                         |                        |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                 |                         |                        |
| Height                        | 119 mm (4.7")                                      |                 |                         |                        |
| Weight                        | 0.15 kg (0.33 lbs.)                                |                 | 0.18 kg (0.4 lbs.)      |                        |
| Environment and certification |                                                    |                 |                         |                        |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                 |                         |                        |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                 |                         |                        |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)





| Specific feature <sup>1</sup> | DI828                                              | DI890                                            | DO801                              | DO802                                  |
|-------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|----------------------------------------|
| General info                  |                                                    |                                                  |                                    |                                        |
| Article number                | 3BSE069054R1                                       | 3BSC690073R1                                     | 3BSE020510R1                       | 3BSE022364R1                           |
| Type                          | Digital Input                                      |                                                  | Digital Output                     |                                        |
| Signal specification          | 120 V a.c. / d.c.                                  | NAMUR input level                                | 24 V d.c. (12 - 32 V d.c.), 0.5 A  | 24...110 V d.c. / 250 V a.c. (max 2 A) |
| Number of channels            | 16                                                 | 8                                                | 16                                 | 8                                      |
| Signal type                   | Current sinking                                    | Proximity sensor (NAMUR) or Voltage free contact | Current sourcing, current limiting | Relay (NO)                             |
| HART                          | No                                                 |                                                  |                                    |                                        |
| SOE                           | No                                                 |                                                  |                                    |                                        |
| Redundancy                    | No                                                 |                                                  |                                    |                                        |
| High integrity                | No                                                 |                                                  |                                    |                                        |
| Intrinsic safety              | No                                                 | Yes                                              | No                                 |                                        |
| Mechanics                     | S800                                               |                                                  | S800L                              |                                        |
| Dimensions                    |                                                    |                                                  |                                    |                                        |
| Width                         | 45 mm (1.77")                                      |                                                  | 86.1 mm (3.4")                     |                                        |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                                                  | 58.5 mm (2.3")                     |                                        |
| Height                        | 119 mm (4.7")                                      |                                                  | 110 mm (4.33")                     |                                        |
| Weight                        | 0.15 kg (0.33 lbs.)                                | 0.2 kg (0.44 lbs.)                               | 0.24 kg (0.53 lbs.)                |                                        |
| Environment and certification |                                                    |                                                  |                                    |                                        |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                                                  |                                    |                                        |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                                                  |                                    |                                        |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | DO810                                              | DO814                             | DO815                              | DO818                                              |
|-------------------------------|----------------------------------------------------|-----------------------------------|------------------------------------|----------------------------------------------------|
| General info                  |                                                    |                                   |                                    |                                                    |
| Article number                | 3BSE008510R1                                       | 3BUR001455R1                      | 3BSE013258R1                       | 3BSE069053R1                                       |
| Type                          | Digital Output                                     |                                   |                                    |                                                    |
| Signal specification          | 24V d.c. (12 - 32 V d.c.), 0.5 A                   | 24 V d.c. (12-32 V d.c.), 0.5 A   | 24 V d.c. (10 - 32 V d.c.), 2A     | 24 V d.c. (12 - 32 V d.c.), 0.5 A                  |
| Number of channels            | 16                                                 |                                   | 8                                  | 32                                                 |
| Signal type                   | Current sourcing, current limiting                 | Current sinking, current limiting | High side driver, current limiting | Current sourcing, current limiting                 |
| HART                          | No                                                 |                                   |                                    |                                                    |
| SOE                           | No                                                 |                                   |                                    |                                                    |
| Redundancy                    | No                                                 |                                   |                                    |                                                    |
| High integrity                | No                                                 |                                   |                                    |                                                    |
| Intrinsic safety              | No                                                 |                                   |                                    |                                                    |
| Mechanics                     | S800                                               |                                   |                                    |                                                    |
| Dimensions                    |                                                    |                                   |                                    |                                                    |
| Width                         | 45 mm (1.77")                                      |                                   |                                    | 45 mm (1.77")                                      |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                                   |                                    | 102 mm (4.01"), 111 mm (4.37") including connector |
| Height                        | 119 mm (4.7")                                      |                                   |                                    | 119 mm (4.7")                                      |
| Weight                        | 0.18 kg (0.4 lbs.)                                 |                                   | 0.2 kg (0.44 lbs.)                 | 0.18 kg (0.4 lbs.)                                 |
| Environment and certification |                                                    |                                   |                                    |                                                    |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                                   |                                    |                                                    |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                                   |                                    |                                                    |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | DO820                                              | DO821                                    | DO828                                                           | DO840                                              |
|-------------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------|
| General info                  |                                                    |                                          |                                                                 |                                                    |
| Article number                | 3BSE008514R1                                       | 3BSE013250R1                             | 3BSE069055R1                                                    | 3BSE020838R1                                       |
| Type                          | Digital Output                                     |                                          |                                                                 |                                                    |
| Signal specification          | 230 V a.c. / d.c. (5 - 250 V a.c./d.c.), 3 A       | 230 V a.c./d.c. (5-250 V a.c./d.c.), 3 A | 125 V d.c. / 250 V a.c., (5 - 125 V d.c. / 5 - 250 V a.c.), 2 A | 24 V d.c. (19.2 - 32 V d.c.), 0.5 A                |
| Number of channels            | 8                                                  |                                          | 16                                                              |                                                    |
| Signal type                   | Relay (NO)                                         | Relay (NC)                               | Relay (NO)                                                      | Current sourcing, current limiting                 |
| HART                          | No                                                 |                                          |                                                                 |                                                    |
| SOE                           | No                                                 |                                          |                                                                 |                                                    |
| Redundancy                    | No                                                 |                                          |                                                                 | Yes                                                |
| High integrity                | No                                                 |                                          |                                                                 |                                                    |
| Intrinsic safety              | No                                                 |                                          |                                                                 |                                                    |
| Mechanics                     | S800                                               |                                          |                                                                 |                                                    |
| Dimensions                    |                                                    |                                          |                                                                 |                                                    |
| Width                         | 45 mm (1.77")                                      |                                          | 45 mm (1.77")                                                   | 45 mm (1.77")                                      |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                                          | 102 mm (4.01"), 111 mm (4.37") including connector              | 102 mm (4.01"), 111 mm (4.37") including connector |
| Height                        | 119 mm (4.7")                                      |                                          | 119 mm (4.7")                                                   | 119 mm (4.7")                                      |
| Weight                        | 0.23 kg (0.5 lbs.)                                 |                                          | 0.18 kg (0.4 lbs.)                                              | 0.15 kg (0.33 lbs.)                                |
| Environment and certification |                                                    |                                          |                                                                 |                                                    |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                                          |                                                                 |                                                    |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                                          |                                                                 |                                                    |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | DO890                                              | DP820                      | DP840                        |
|-------------------------------|----------------------------------------------------|----------------------------|------------------------------|
| General info                  |                                                    |                            |                              |
| Article number                | 3BSC690074R1                                       | 3BSE013228R1               | 3BSE028926R1                 |
| Type                          | Digital Output                                     | Pulse counter              |                              |
| Signal specification          | 11 V, 40 mA                                        | 24 V d.c. (12 - 32 V d.c.) | 24 V d.c. (19.2 - 32 V d.c.) |
| Number of channels            | 4                                                  | 2                          | 8                            |
| Signal type                   | Solenoid driver                                    |                            |                              |
| HART                          | No                                                 |                            |                              |
| SOE                           | No                                                 |                            |                              |
| Redundancy                    | No                                                 | Yes                        |                              |
| High integrity                | No                                                 |                            |                              |
| Intrinsic safety              | Yes                                                | No                         |                              |
| Mechanics                     | S800                                               |                            |                              |
| Dimensions                    |                                                    |                            |                              |
| Width                         | 45 mm (1.77")                                      |                            |                              |
| Depth                         | 102 mm (4.01"), 111 mm (4.37") including connector |                            |                              |
| Height                        | 119 mm (4.7")                                      |                            |                              |
| Weight                        | 0.2 kg (0.44 lbs.)                                 | 0.15 kg (0.33 lbs.)        | 0.15 kg (0.33 lbs)           |
| Environment and certification |                                                    |                            |                              |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS                         |                            |                              |
| WEEE compliance               | DIRECTIVE/2012/19/EU                               |                            |                              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)

# Accessories



| Specific feature <sup>1</sup> | TB805                      | TB806        | TB807        | TB845        |
|-------------------------------|----------------------------|--------------|--------------|--------------|
| General info                  |                            |              |              |              |
| Article number                | 3BSE008534R1               | 3BSE008536R1 | 3BSE008538R1 | 3BSE021437R1 |
| Mechanics                     | S800                       |              |              |              |
| Dimensions                    |                            |              |              |              |
| Width                         | 22 mm                      |              | 17 mm        | 43 mm        |
| Depth                         | 25 mm                      |              | 13 mm        | 31.5 mm      |
| Height                        | 109 mm                     |              | 19 mm        | 186 mm       |
| Weight                        | 46 g                       |              | 10 g         | 180 g        |
| Environment and certification |                            |              |              |              |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS |              |              |              |
| WEEE compliance               | DIRECTIVE/2012/19/EU       |              |              |              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup>        | TK846                      | TK801V003    | TK801V006    | TK801V012    |
|--------------------------------------|----------------------------|--------------|--------------|--------------|
| <b>General info</b>                  |                            |              |              |              |
| Article number                       | 3BSE021439R1               | 3BSC950089R1 | 3BSC950089R2 | 3BSC950089R3 |
| Mechanics                            | S800                       |              |              |              |
| <b>Dimensions</b>                    |                            |              |              |              |
| Width                                | 43 mm                      |              |              |              |
| Depth                                | 31.5 mm                    |              |              |              |
| Height                               | 186 mm                     |              |              |              |
| Weight                               | 180 g                      | 0,155 kg     | 0.19 kg      | 0.265 kg     |
| <b>Environment and certification</b> |                            |              |              |              |
| RoHS compliance                      | EU RoHS, UAE RoHS, CN RoHS |              |              |              |
| WEEE compliance                      | DIRECTIVE/2012/19/EU       |              |              |              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | TK811V015    | TK811V050    | TK811V150    | TK812V015    |
|-------------------------------|--------------|--------------|--------------|--------------|
| General info                  |              |              |              |              |
| Article number                | 3BSC950107R1 | 3BSC950107R2 | 3BSC950107R3 | 3BSC950118R1 |
| Mechanics                     | S800         |              |              |              |
| Dimensions                    |              |              |              |              |
| Weight                        | 0.02 kg      | 0.045 kg     | 0.125 kg     | 0.015 kg     |
| Environment and certification |              |              |              |              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)



| Specific feature <sup>1</sup> | TK812V050    | TK812V150    | TY801K01                   | TY804K01     |
|-------------------------------|--------------|--------------|----------------------------|--------------|
| General info                  |              |              |                            |              |
| Article number                | 3BSC950118R2 | 3BSC950118R3 | 3BSE023607R1               | 3BSE033670R1 |
| Mechanics                     | S800         |              |                            |              |
| Dimensions                    |              |              |                            |              |
| Width                         |              |              | 15.5 mm                    |              |
| Depth                         |              |              | 62 mm                      |              |
| Height                        |              |              | 11 mm                      |              |
| Weight                        | 0.025 kg     | 0.065 kg     | 0.06 kg                    |              |
| Environment and certification |              |              |                            |              |
| RoHS compliance               |              |              | EU RoHS, UAE RoHS, CN RoHS |              |
| WEEE compliance               |              |              | DIRECTIVE/2012/19/EU       |              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)





| Specific feature <sup>1</sup> | TY805K01                   | TY820K01     |
|-------------------------------|----------------------------|--------------|
| General info                  |                            |              |
| Article number                | 3BSE081160R1               | 3BSE056980R1 |
| Mechanics                     | S800                       |              |
| Dimensions                    |                            |              |
| Width                         | 15.5 mm                    | 20 mm        |
| Depth                         | 62 mm                      | 8 mm         |
| Height                        | 11 mm                      | 13 mm        |
| Weight                        | 0.06 kg                    | 0.08 kg      |
| Environment and certification |                            |              |
| RoHS compliance               | EU RoHS, UAE RoHS, CN RoHS |              |
| WEEE compliance               | DIRECTIVE/2012/19/EU       |              |

<sup>1</sup> For detailed information on each module, please visit: [freelancehardwareselector.automation.abb.com](https://freelancehardwareselector.automation.abb.com)

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