

ASi-5 Slave/IO-Link Master with 4 Ports, IP20

ASi-5/IO-Link Master with 4 Ports

New standard ASi-5

Quadruple IO-Link master


Suitable for port class A and class B

Power supply of IO-Link ports out of AUX



(Figure similar)



Figure	Type	Number of IO-Link Ports	IO-Link Port Class A ⁽¹⁾	IO-Link Port Class B ⁽²⁾	Sensor supply (IO-Link supply and input/output voltage) ⁽³⁾	Actuator supply (for ports class B) ⁽⁴⁾	ASi connection ⁽⁵⁾	ASi address ⁽⁶⁾	Art. no.
	IP20, 22,5 mm x 114 mm, 6 x COM-BICON, ASi-5	4	configurable terminals	configurable terminals	out of AUX	out of AUX	clamps	ASi-5 slave	BWU3843

(1) IO-Link Port Class A

Configurable terminals: Terminal assignment (C/Q, L+, L-, I) compatible with pin assignment of IO-Link port class A (M12). Connected IO-Link devices with port class B (M12) with a higher current consumption have to be supplied directly via a separate power supply. Compatible with 3 pol IO-Link devices (M8).

(2) IO-Link Port Class B

Configurable terminals: Terminal assignment (C/Q, L+, L-, I) compatible with pin assignment of IO-Link port class A (M12). Connected IO-Link devices with port class B (M12) with a higher current consumption have to be supplied directly via a separate power supply. Compatible with 3 pol IO-Link devices (M8).

(3) Sensor supply (IO-Link supply and input/output supply)

IO-Link and additional inputs/outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs can neither be connected to earth nor to external potential.

(4) Actuator supply (for ports class B)

Connection via M12: For ports class B the supply of actuators is provided by an additional (galvanically isolated) power supply by AUX (auxiliary 24 V power).

Connection via clamps: If connected IO-Link slaves with port class B need a higher current consumption, additionally they can be supplied directly via the power supply.

(5) ASi connection

The connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow or black ASi profile cable with piercing technology or via M12 socket (in IP20 via clamps).

(6) ASi address

AB slave (max. 62 AB slaves/ASi network), 2 AB slaves (max. 31 modules with 2 AB slaves), single slaves (max. 31 single slaves/ASi network), 1 ASi-5 slave (max. 62 ASi-5 slaves/ASi network), mixed use allowed.

For modules with 2 slaves, the 2nd slave is switched off as long as the 1st slave is addressed "0".

Upon request, slaves are available with specific ASi slave profiles.

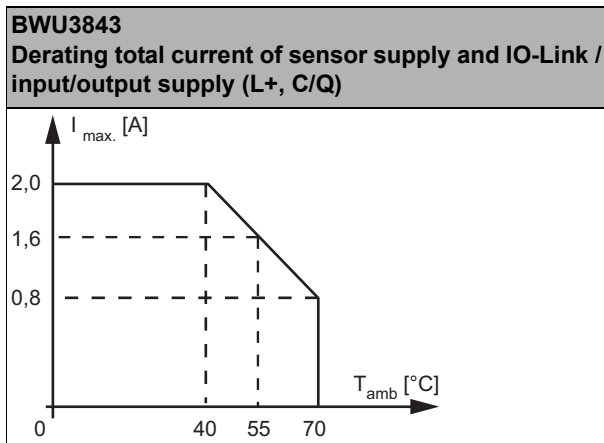
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Article no.		BWU3843
Connection		
ASi / AUX connection	COMBICON plug, push-in terminals	
Periphery connection	COMBICON plug, push-in terminals	
Primary application	control cabinet	
Length of connector cable	I/O: max. 20 m	
ASi		
Address	1 ASi-5 slave	
Operating voltage	30 V (18 ... 31.6 V)	
Required master profile	M5	
Since ASi specification	5	
Process data width	8 ... 32 bytes	
Max. current consumption	35 mA	
Max. current consumption without sensor/actuator supply	35 mA	
AUX		
Voltage	24 V (18 ... 30 V)	
Max. current consumption	2 A	
Configurable I/O's		
Number	4 ports class A	
IO-Link data rate	COM1 / COM2 / COM3	
IO-Link data width	0 ... 32 bytes	
IO-Link revision	1.1	
Switching threshold	U < 5 V (low) U > 15 V (high)	
Power supply	out of AUX	
Power supply of attached sensors (L+)	up to +40 °C	500 mA per port, $\sum(L+, C/Q)$ 2 A ⁽¹⁾
	at +55 °C	400 mA per port, $\sum(L+, C/Q)$ 1,6 A ⁽¹⁾
	at +70 °C	200 mA per port, $\sum(L+, C/Q)$ 0,8 A ⁽¹⁾
IO-Link / input/output current (C/Q)	up to +40 °C	500 mA per port, $\sum(L+, C/Q)$ 2 A ⁽¹⁾
	at +55 °C	400 mA per port, $\sum(L+, C/Q)$ 1,6 A ⁽¹⁾
	at +70 °C	200 mA per port, $\sum(L+, C/Q)$ 0,8 A ⁽¹⁾
Display		
LED ASI (green)	on: AS-i voltage on flashing: AS-i voltage on, but peripheral fault ⁽²⁾ or address 0 off: no AS-i voltage	
LED FLT/FAULT (red)	on: slave address 0 or slave offline flashing: peripheral fault ⁽²⁾ off: slave online	
LED AUX (red/green)	green: AUX voltage OK red: AUX voltage < 18 V	
LEDs C/Q1 ... C/Qn (red/green)	state of IO-Link ports 1 ... 4: green: IO-Link communication OK yellow: switching signal at input or output at terminal C/Q1 ... C/Q4 red: IO-Link communication error	
LEDs I1 ... In (yellow)	state of inputs I1 ... I4	

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Article no.	BWU3843
Environment	
Applied standards	EN 61000-2 EN 61000-3 EN 61131-2 EN 60529
Passive safety (up to PLe/SIL 3)	yes ⁽³⁾
Operating altitude	max. 2000 m
Operating temperature	-25 °C ... +55 °C (up to max. +70 °C) ^{(1) (4)} no condensation permitted
Storage temperature	-25 °C ... +85 °C
Housing	plastic, din-rail mounting
Pollution degree	2
Protection category	IP20
Tolerable loading referring to humidity	according to EN 61131-2
Insulation voltage	≥500 V
Weight	120 g
Dimensions (W / H / D in mm)	22,5 / 99 / 114

(1)



(2) See table "Peripheral fault indication"

(3) Exclusion of errors for the connection of the two ASi and AUX potentials can be assumed in the module. Passive safety for the application can only be achieved if this is ensured for all components used.

(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

