

Light switch module ASi, 4I/4O

ASi PCB module, 4I/4O

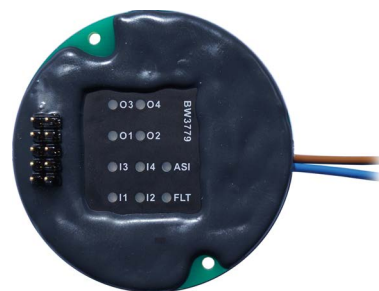
Diameter 50 mm,
for use in round flush-mounted boxes

Thick coated

Print connector and connecting wires


For example for light switches

AB address (up to 62 addresses)



(Figure similar)



Figure	oem di- mensions	Inputs digital	Outputs digital	Connection	Coated	LED Status display ⁽¹⁾	Input voltage (sensor supply) ⁽²⁾	Output voltage (actuator supply) ⁽³⁾	ASi address ⁽⁴⁾	Article No.
	50 mm	4	4 x electronic	print connector + connecting wires, 250 mm	yes	yes	via ASi	via ASi	1 AB address	BW3779

(1) **LED status display:** status of in- and outputs is indicated by LEDs. In addition to that, both ASi LEDs (PWR green and FAULT red) show as usual regarding the ASi modules - the status of the ASi modules. Uaux is indicated by a green LED.

(2) **Input voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.

(3) **Output voltage (actuator supply):** Electronic outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, outputs shall not be connected to earth or to external potential. For relay outputs the relay contacts are initiated from ASi. The load circuit is powered externally as specified in the data sheet.

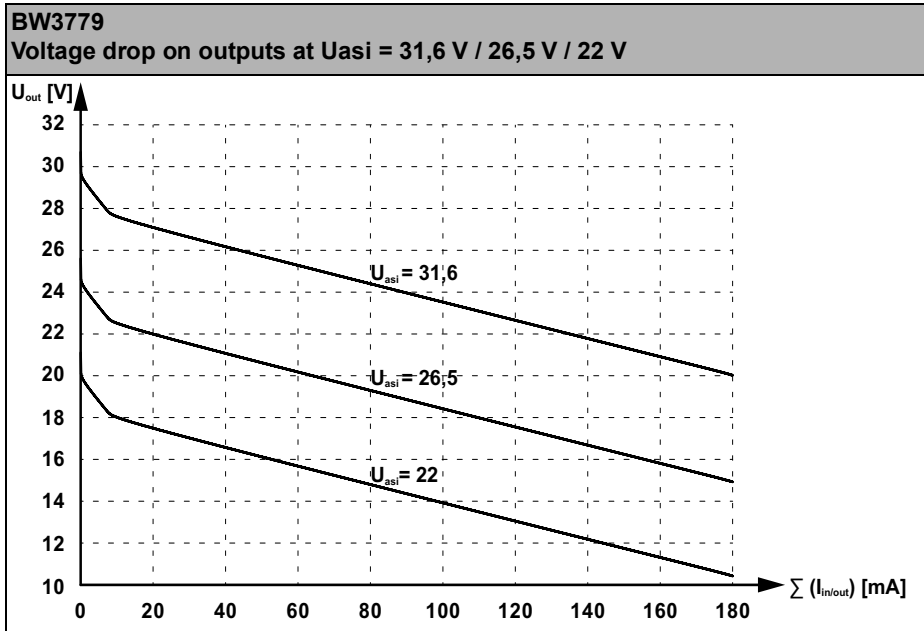
(4) **ASi address:** 1 AB address (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), Single addresses (max. 31 Single addresses/ASi network), mixed use allowed. For modules with two ASi nodes the 2nd ASi node is turned off as long as the 1st ASi node is addressed to address "0". Upon request, ASi nodes are available with specific ASi node profiles.

Light switch module ASi, 4I/4O

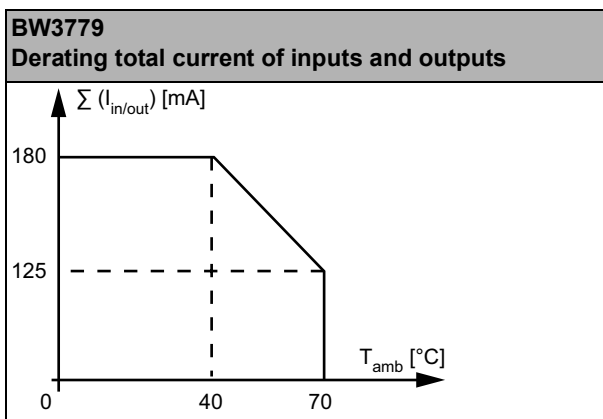
Article no.		BW3779
Connections		
ASi / Periphery connection	Print connectors+ connecting wires, 250 mm	
Length of connector cable	I/O: max. 1,5 m ⁽¹⁾	
ASi		
Profile	S -7.A.7, ID1=7 (fixed)	
Address	1 AB address	
Required Master profile	≥M4	
Since ASi specification	3.0	
Operating voltage	22 ... 31,6 V ⁽²⁾	
Max. current consumption	230 mA	
Input		
Number	4	
Power supply	out of ASi	
Sensor supply	short-circuit and overload protected according to EN 61131-2	
Power supply of attached sensors	up to 40 °C	max. 180 mA, $\sum (In/Out) \leq 180 \text{ mA}^{(3)(4)}$
	at 70 °C	max. 125 mA, $\sum (In/Out) \leq 125 \text{ mA}^{(3)(4)}$
Switching threshold	$U_{in} < 2 \text{ V low,}$ $U_{in} \text{ bei } 0 \text{ mA } > 12,6 \text{ V high,}$ $U_{in} \text{ bei } 180 \text{ mA } > 9,2 \text{ V high}$	
Output		
Number	4	
Power supply	out of ASi	
Actuator supply	short-circuit and overload protected according to EN 61131-2	
Max. output current	up to 40 °C	100 mA per output, $\sum (In/Out) \leq 180 \text{ mA}^{(3)(4)}$
	at 70 °C	100 mA per output, $\sum (In/Out) \leq 125 \text{ mA}^{(3)(4)}$
Display		
LED ASi (green)	on: ASi voltage on flashing: ASi voltage on, or address 0 off: no ASi voltage	
LED FLT/FAULT (red)	on: ASi address 0 or ASi participant offline off: ASi participant online	
LEDs I1 ... In (yellow)	State of inputs I1 ... I4	
LEDs O1 ... On (yellow)	State of outputs O1 ... O4	
Environment		
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529	
Operating altitude	max. 2000	
Operating temperature	-25°C ... +70°C ⁽³⁾	
Storage temperature	-25°C ... +85°C	
Pollution degree	2	
Protection category	IP00 (thick coated)	
Tolerable loading referring to humidity	acc. EN 61131-2	
Coated	yes	
Tolerable loading referring to humidity	$\leq 15 \text{ g, } T \leq 11 \text{ ms,}$ 10 ... 55 Hz, 0,5 mm amplitude	
Weight	27 g	
Dimensions (W / H / D in mm)	50 / 20	

⁽¹⁾ Loop resistance: $\leq 150 \Omega$

(2)



(3)



(4) The current available for powering external sensors/actuators is reduced by approx. 2...3 mA per activated input/output LED.

Dimensional drawing	LED assignment
<p>BW3779</p>	<p>BW3779</p>

Programming	Bit setting digital I/O			
	D0	D1	D2	D3
	input			
BW3779	I1	I2	I3	I4
	output			
BW3779	O1	O2	O3	O4

Programming	Parameter bit			
	P0	P1	P2	P3
BW3779	0= off / 1= on (Watchdog)	0= on / 1= off (Data input filter 128 µs)	0= on / 1= off (synchronous I/O mode)	not used

programming note	
BW3779	preset: address 0 changeable via bus master programming device

Pin assignment

Signal name	Explanation
I _x	digital input x
O _x	digital output x
I ₊ _x	power supply
O ₋ _x	GND for outputs (PNP)
ASi+, ASi-	Connection to ASi bus

Pin assignment						
Front view	Back view	Conne- ction	Name	Feller (1)	Connecting wires color	
		1	O-	5 (ComL)		
		2	I4	6 (T4)		
		3	I2	4 (T2)		
		4	I3	7 (T3)		
		5	O3	3 (LED3)		
		6	O2	8 (LED2)		
		7	O1	2 (LED1)		
		8	O4	9 (LED4)		
		9	I1	1 (T1)		
		10	I+	10 (ComT)		
			11	ASi +		BN
			12	ASi -		BU

(1) Numbering/Name of the connections to a Feller/Schneider Electric button with print connectors.

Accessories:

- 10 poles ribbon cable for connecting BW3779 to appropriate Feller/Schneider Electric switches (Art. No. BW3902)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)