AS-Interface® Module
for 4 2/3-wire-sensors

45

80

PX0780

height 27 mm

Addressing using the addressing unit BAS-P-001
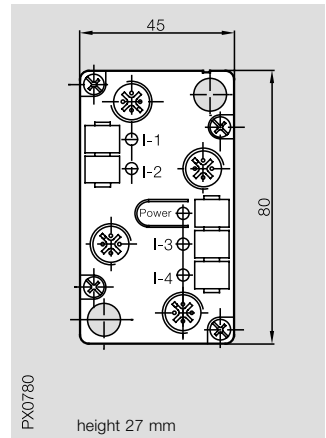
PNP		BAS S-000-S0-P0-S 4
NPN		BAS S-000-S0-N0-S 4
Supply voltage sensors U_{out}		20...30 V DC
Supply voltage U_B		via AS-Interface®
Rated operational current I_e		120 mA
Protected against polarity reversal		yes
Short circuit protected		yes
Ambient temperature range T_a		−25...+85 °C
Inputs	numbers	4
	switch OFF I_{in}	≤ 1.5 mA
	data ON I_{in}	≥ 5 mA
	U_{in}	≥ 10 V DC
Output	numbers	
(relays)	load current	
	switch cycles	
Actuator	through ribbon cable	
supply U_{ext}	protected against polarity reversal	
Function	LED green	1, voltage ON
indication	LED yellow	4, input ON
Degree of protection per IEC 60529		IP 67
Pin assignment	pin	input
	1	+
	2	NC
	3	−
	4	NO
Data bit assignment		D0/input I1
Bit/function		D1/input I2
		D2/input I3
		D3/input I4
Slave profile		S 0.0
Module base	for ribbon cable	BAS S-S0A-ADT
	for round cable	BAS S-H0A-RSK

3 4
2 1 female

Programming

preset address 00, changeable from
master or addressing unit.

AS-Interface® ribbon cable
and cable accessories
see page **5.**27
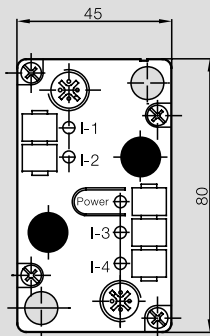
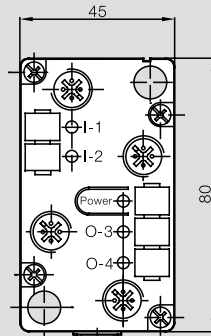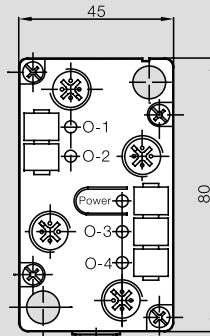| AS-Interface® Module for diagnostic sensor BES 113-356-SA-6-... or BES 113-3019-SA 1-...	AS-Interface® Module for 2 2/3-wire-sensors with static diagnostic or 2 4-wire sensors	AS-Interface® Module for 2 2/3-wire-sensors and 2 relay outputs	AS-Interface® Module with 4 relay outputs
height 27 mm	height 27 mm	height 27 mm M12x1	height 27 mm M12x1
BAS S-0F0-S0-P0-S 4	BAS S-010-S0-P0-S 4	BAS S-300-S0-P1-S 4	BAS S-800-S0-P1-S 4
	BAS S-010-S0-N0-S 4		
20...30 V DC	20...30 V DC	20...30 V DC	20...30 V DC
via AS-Interface®	via AS-Interface®	via AS-Interface®	via AS-Interface®
120 mA	120 mA	120 mA	120 mA
yes	yes	yes	yes
yes	yes	yes	yes
−25...+85 °C	−25...+85 °C	−25...+85 °C	−25...+85 °C
2	2 × 2	2	
≤ 1.5 mA	≤ 1.5 mA	≤ 1.5 mA	
≥ 5 mA	≤ 5 mA	≥ 5 mA	
≥ 10 V DC	≥ 10 V DC	≥ 10 V DC	
		2	4
		500 mA	500 mA
		2×10^8	2×10^8
		24 V DC	24 V DC
		yes	yes
1, voltage ON	1, voltage ON	1, voltage ON	1, voltage ON
4, input ON	4, input ON	2/2, input/output ON	4, output ON
IP 67	IP 67	IP 67	IP 67
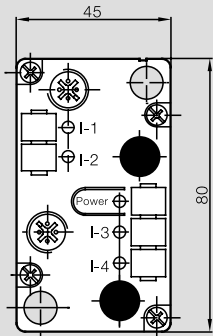
pin	input		pin	input		pin	input	output	U_{ext}	pin	output	U_{ext}
1	+		1	+		1	+		+	1		+
2			2	diagnostic		2	NC			2		
3	−		3	−		3	−	− U_{ext}	−	3	− U_{ext}	−
4	NO		4	NO		4	NO	+ switched		4	+ switched	

D0/input (signal) I1	D0/input (signal) I1	D0/input I1	D0/output O1
D1/input (monitor) I2	D1/input (monitor) I2	D1/input I2	D1/output O2
D2/input (signal) I3	D2/input (signal) I3	D2/input I3	D2/output O3
D3/input (monitor) I4	D3/input (monitor) I4	D3/input I4	D3/output O4
S 0.F	S 0.1	S 3.0	S 8.0
BAS S-S0A-ADT	BAS S-S0A-ADT	BAS S-S0A-ADT	BAS S-S0A-ADT
BAS S-H0A-RSK	BAS S-H0A-RSK	BAS S-H0A-RSK	BAS S-H0A-RSK

please order module bases separately
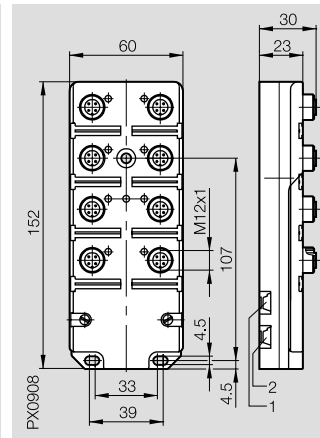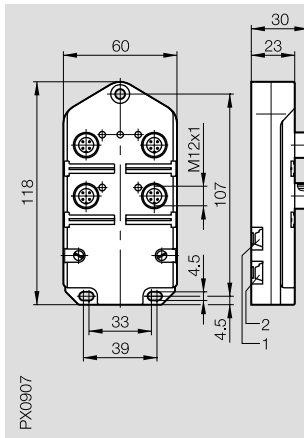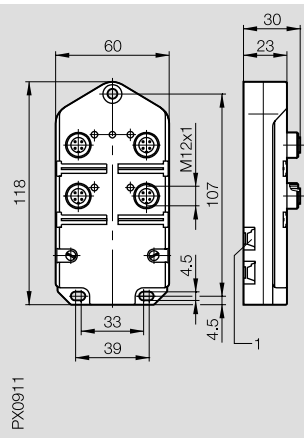
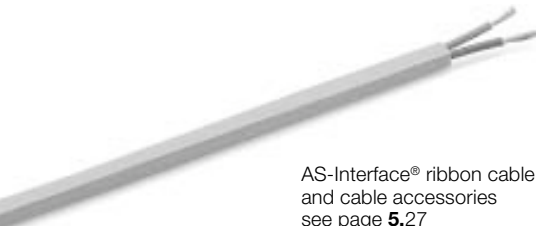|	**Input Module** for 4 2/3-wire-sensors	**Input-/Output Module** for 2 2/3-wire-sensors and 2 electronic outputs	**Input-/Output Module** for 4 2/3-wire-sensors and 4 electronic outputs	

1 AS-Interface® standard cable
yellow ribbon cable
2 External power supply
black ribbon cable

PNP		BAS S-000-LX-P0-S 4-ADT	BAS S-300-LX-P1-S 4-ADT	BAS S-700-LX-P1-S 4-ADT	
Supply voltage sensors U_{out}		20...30 V DC	20...30 V DC	20...30 V DC	
Supply voltage U_B		via AS-Interface®	via AS-Interface®	via AS-Interface®	
Rated operational current I_e		≤ 130 mA	≤ 130 mA	≤ 135 mA	
Protected against polarity reversal		yes	yes	yes	
Short circuit protected		yes	yes	yes	
Ambient temperature range T_a		−25...+85 °C	−25...+85 °C	−25...+85 °C	
Inputs	numbers	4	2	4	
	short circuit protected	limited to 100 mA	limited to 100 mA	limited to 100 mA	
	input current	5...8 mA	5...8 mA	5...8 mA	
Outputs	numbers		2	4	
	load per output		2 A	2 A	
	current per module		max. 4 A	max. 4 A	
	short circuit current limit		> 2 A	> 2 A	
Actuator supply U_{ext}	through ribbon cable		24 V DC	24 V DC	
	protected against polarity reversal		yes	yes	
Function indication	LED green	1, voltage ON	1, voltage ON	1, voltage ON	
	LED yellow	4, input ON	2/2, input/output ON	4/4, input/output ON	
Degree of protection per IEC 60529		IP 67	IP 67	IP 67	

Pin assignment

female BAS...**LX**...
female BAS...**MX**...

pin	input		pin	input	output		pin	input	output
1	+		1	+			1	+	
2	NC		2	NC			2	NC	
3	−		3	−	− U_{ext}		3	−	− U_{ext}
4	NO		4	NO	+ switched		4	NO	+ switched

Data bit assignment Bit/function		D0/input I1	D0/input I1	D0/I1 + O1	
		D1/input I2	D1/input I2	D1/I2 + O2	
		D2/input I3	D2/output O3	D2/I3 + O3	
		D3/input I4	D3/output O4	D3/I4 + O4	
Slave profile		S 0.0	S 3.0	S 7.0	
Addressing adapter		BAS ZP-ADAPTER L1	BAS ZP-ADAPTER L1	BAS ZP-ADAPTER L1	

Programming

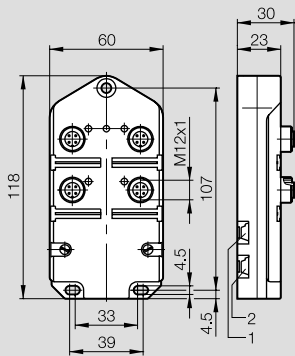preset address 00, changeable from
master or addressing unit.

AS-Interface® ribbon cable
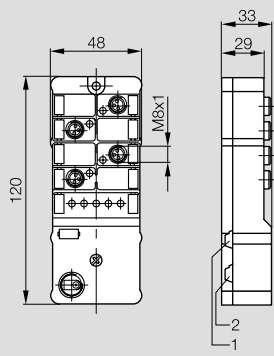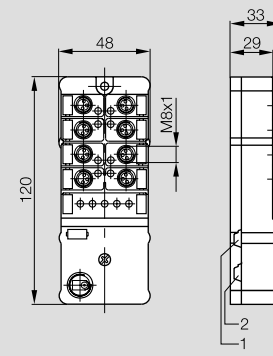and cable accessories
see page **5.**27

Output Module	Input Module	Input Module	Input-/Output Module
with 4 electronic outputs	for 4 3-wire-sensors	for 8 3-wire sensors (2 slaves per module)	for 4 3-wire sensors and 4 electronic outputs
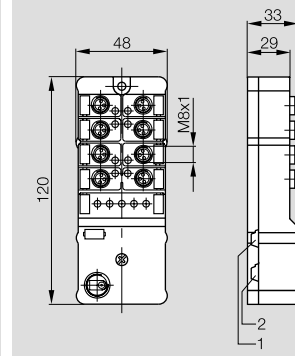
PX0907 | PX1448 | PX1449 | PX1449

	BAS S-800-LX-P1-S 4-ADT	BAS S-000-MX-P0-S 49-ADT	BAS S-002-MX-P0-S 49-ADT	BAS S-700-MX-P1-S 49-ADT
	20...30 V DC	20...30 V DC	20...30 V DC	20...30 V DC
	via AS-Interface®	via AS-Interface®	via AS-Interface®	via AS-Interface®
	≤ 120 mA	≤ 250 mA	≤ 250 mA	≤ 50 mA
	yes	yes	yes	yes
	yes	yes	yes	yes
	−25...+85 °C	0...+55 °C	0...+55 °C	0...+55 °C
		4	2 × 4	4
		limited to 200 mA	limited to 200 mA	limited to 200 mA
		≤ 11 mA	≤ 11 mA	≤ 11 mA
	4			4
	2 A			2 A
	max. 4 A			max. 4 A
	> 2 A			> 2 A
	24 V DC			24 V DC
	yes			yes
	1, voltage ON	1, voltage ON	2, voltage ON	A, voltage ON
	4, input/output ON	4, input ON	8, input ON	4/4, input/output ON
	IP 67	IP 65	IP 65	IP 65

pin	output	pin	input	pin	input	pin	input	output
1		1	+	1	+	1	+	
2								
3	− U_{ext}	3	−	3	−	3	−	− U_{ext}
4	+ switched	4	NO	4	NO	4	NO	+ switched

D0/output O1	D0/input I1	D0 input I0 / D0 input I4	D0/I0 + O0
D1/output O2	D1/input I2	D1 input I1 / D1 input I5	D1/I1 + O1
D2/output O3	D2/input I3	D2 input I2 / D2 input I6	D2/I2 + O2
D3/output O4	D3/input I4	D3 input I3 / D3 input I7	D3/I3 + O3
S 8.0	S 0.0	2 × S 0.0	S 7.0
BAS ZP-ADAPTER L1	BAS ZP-ADAPTER M1	BAS ZP-ADAPTER M1	BAS ZP-ADAPTER M1

Modules BAS-S-_ _ _-MX-..

end cap for last station

end cap
looped cable
end station

hole pattern

PX1448a