

ASi Motor Module for Lenze Smart Motor, 1M/3I

ASi Motor module, IP67, M12 for Lenze Smart Motor, 1M/3I

1 AB address

ASi/AUX via Profile cable


2 x M12 connections compatible with Lenze Smart Motor

2 x M12 connections for up to 3 additional sensors



(Abbildungen ähnlich)



Figure	Type	Drive ⁽¹⁾	Number of drives	Inputs digital	Outputs digital	Input voltage (sensor supply) ⁽²⁾	Output voltage (actuator supply) ⁽³⁾	ASi connection ⁽⁴⁾	ASi address ⁽⁵⁾	Art. no.
	IP67, 4 x M12	Lenze Smart Motor	1	3	—	out of AUX	out of AUX	ASi profile cable	1 AB Adresse	BWU4373

(1) **Drive**

Lenze Smart Motor: Motor module to control Lenze Smart motors and to control additional sensors.

(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):** 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.

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

(5) **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 second ASi nodes is turned off as long as the first ASi nodes is addressed to address "0". Upon request, ASi nodes are available with specific ASi address profiles.

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Article No.		BWU4373
General data		
Device type		input / output
Connection		
ASi/AUX connection		profile cable and piercing technology
Periphery connection		M12
ASi		
Profile		S-7.A.E, ID1= 7 (default)
Address		1 AB address
Required Master profile		≥M4
As of ASi specification		3
Operating voltage		30 V (18 ... 31.6 V)
Max. current consumption		35 mA
Max. current consumption without sensor/ actuator supply		35 mA
AUX		
Operating voltage		24 V (18 ... 30 V)
Max. current consumption		max. 2,5 A
Input		
Number		3 (I2 ... I4)
Power supply		out of AUX
Power supply of attached sensors	up to +40 °C	max. 1 A
	at +55 °C	
	at +60 °C	
Switching threshold		U<5 V (low) U>15 V (high)
Drive		
Number		1 (O1 ... O3, I1)
Power supply	up to +40 °C	out of AUX
	at +55 °C	
	at +60 °C	
Max. output current		max. 500 mA per output
Anzeige		
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but address 0 off: no ASi voltage
LED FLT/FAULT (red)		on: ASi address 0 or ASi node offline off: ASi node online
LED AUX (green)		on: 24 V _{DC} AUX off: no 24 V _{DC} AUX
LED X1 (yellow)		state of outputs O1 / O2: at least 1 output of output pair is on
LED X2 (yellow)		state of inputs/outputs I1 / O3: input or output is on
LED I2/I3 (yellow)		state of inputs I2 / I3: at least 1 input of input pair is on.
LED I4 (yellow)		state of input I4

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Article No.	BWU4373
Environment	
Applied standards	EN 61000-2 EN 61000-3 EN 61131-2 EN 60529
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	oui ⁽¹⁾
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +55 °C (up to max. +70 °C)
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for DIN rail mounting
Protection category	IP67
Max. tolerable shock load	30g, 11 ms, acc. EN 61131-2
Max. tolerable vibration stress	5 ... 8 Hz 50 mm _{pp} /8 ... 500 Hz 6g, acc. EN 61131-2
Insulation voltage	≥ 500 V
Weight	100 g
Dimensions (W / H / D) in mm	45 / 80 / 42

(1) BWU4373 from Ident. No. ≥19271; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

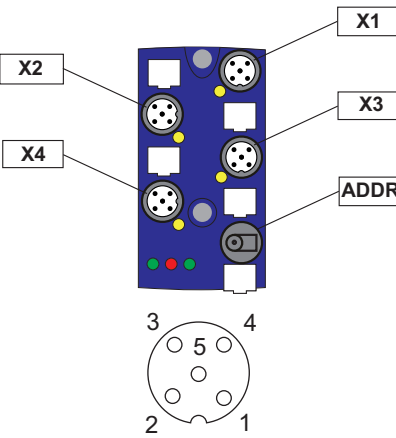
Programming	Parameter bit			
	P0	P1	P2	P3
BWU4373	0= off / 1= on (Watchdog)	0= on / 1= off (data input filter 128 μs)	0= on / 1= off (synchronous I/O mode)	not used

Pin assignment

Signal name	Explanation
Ix	digital input x
Ox	digital output x
24 V _{out of ASi}	Power supply, out of ASi, positive pole (sensor supply)
0 V _{out of ASi}	Power supply, out of ASi, negative pole (sensor supply)
24 V _{ext out}	power supply, out of external voltage, positive pole (AUX, actuator supply)
0 V _{ext out}	power supply, out of external voltage, negative pole (AUX, actuator supply)
24 V _{ext in}	connection to external 24 V power supply, positive pole (AUX, actuator supply)
0 V _{ext in}	connection to external 24 V power supply, negative pole (AUX, actuator supply)
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

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Connections							
Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU4373	X1	X1 ⁽¹⁾	n.c.	O2	0 V _{ext.out}	O1	n.c.
	X2	X2 ⁽²⁾	24 V _{ext.out}	O3	0 V _{ext.out}	I1	n.c.
	X3	I2/I3	24 V _{ext.out}	I3	0 V _{ext.out}	I2	n.c.
	X4	I4	24 V _{ext.out}	n.c.	0 V _{ext.out}	I4	n.c.
	ADDR (protection cap)	connection for ASi addressing device					



(1) 4 pole connection to X1 of Lenze Smart Motor

(2) 4 pole connection to X2 of Lenze Smart Motor

Accessories:

- ASi substructure module for 4 channel module in 45 mm housing (art. no. BW2349)
- ASi substructure module (CNOMO) for 4 channel module in 45 mm housing (art. no. BW2350)
- Protection caps for unused M12 sockets (art. no. BW2368)
- ASi-5/ASi-3 address programming device (art. no. BW4925)
- Passive Distributor ASi/AUX to 2 x M12 socket, internal protection via changeable 4 A slow-blow fuses (art. no. BWU3087)
- It is recommended to use pre-assembled cables to connect the power source with the module.