AS-i Slave for SEW Frequency Inverter, IP67, M12

AS-i Slave for SEW Frequency Inverter

Easy triggering of fixed frequencies

M12 connectors

High protection class IP67

(figure similar)

Article no. BWU2912: AS-i Slave for SEW Frequency Inverter

Article no BWU2956: AS-i Slave for SEW Frequency Inverter, AS-i via M12

The AS-i Slave for SEW frequency inverters enables the data exchange and programming of frequency inverters with the help of an easy connection to AS-i. The AS-i Slave consists of an AS-i 2I Module as a bus interface and a serial interface to communicate with the frequency inverter.

The MOVILINK protocol of MOVIMOT is implemented in the AS-i Slave. The AS-i Slave for SEW frequency inverters is software-compatible to the previous AS-i Slaves for SEW frequency inverters.

Article no.	BWU2912	BWU2956
Interface		
Interface	RS 485	
Baud rates	9600 Bit/s	
Connection		
AS-i / AUX connection	profile cable and piercing	M12
Periphery connection	M12	
AS-i		
Profile	S-7.F.E (ID1=1 fixed)	
Address	1 single slave	
Required Master profile	≥M3	
Since AS-i specification	2.1	
Operating voltage	30 V (18 ... 31,6 V)	
Max. current consumption	165 mA	
AUX		
Voltage	24 V (18 ... 30 V)	
Max. current consumption	1 A	
Input		
Number	2	
power supply	out of AS-i	out of AUX
Sensor supply	short-circuit and overload protected according to EN 61131-2	
Supply of attached sensors	120 mA	
Switching threshold	< 5 V (low) > 15 V (high)	

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Visualization		
LED I1, I2 (yellow)	state of input I1, I2	
LED M1 (yellow)	RS 485 communication active	
LED ASI (green)	on: AS-i voltage flashing: AS-i voltage on, but peripheral fault (1) or address 0 off: no AS-i voltage	
LED AUX (green)	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX	
LED FLT (red)	on: Slave offline flashing: peripheral fault (1) off: Slave online	
Environment		
Applied standards	EN 61000-6-2 EN 61000-6-4 EN 60529	
Operating altitude	max. 2000 m	
Ambient operating temperature	-30 °C ... +55 °C	
Storage temperature	-40 °C … +85 °C	
Housing	plastic, for DIN rail mounting	plastic, for screw mounting
Protection category	IP67	
Pollution Degree	2	
Tolerable loading referring to humidity	according to EN 61131-2	
Maximum tolerable shock and vibration stress	≤15*g*, T≤11 ms 5 ... 500 Hz: 5 Hz, 50 mm_{pp}; 7,6 Hz, 50 mm_{pp}/6*g*; 500 Hz, 6*g*	
Isolation voltage	≥500 V	
Weight	100 g	
Dimensions (B / H / T in mm)	45 / 80 / 42	45 / 116,5 / 47,5

(1) **See table "Peripheral fault indication"**

Article no.	Peripheral fault indication		
	Overload sensor supply	error in the inverter	communication error with the inverter
BWU2912	•	•	•
BWU2956	•	•	•

Article no.	Operating mode (1)	
	1 ramp with 14 speeds	2 ramps with 6 speeds each (2)
BWU2912	•	•
BWU2956	–	–

(1) The ramps can be switched during operation.

(2) BWU2912 from Ident.No. ≥16859

Pin assignment

Signal name	Explanation
Ix	Digital input x
RS 485 TX +	Communication with motor, positive pole (labeling on motor RX +)
RS 485 TX -	Communication with motor, negative pole (labeling on motor RX -)
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 $V_{ext\ in}$	Input voltage, positive pole (AUX+)
0 $V_{ext\ in}$	Input voltage, negative pole (AUX-)
AS-i+	AS-i network, positive potential

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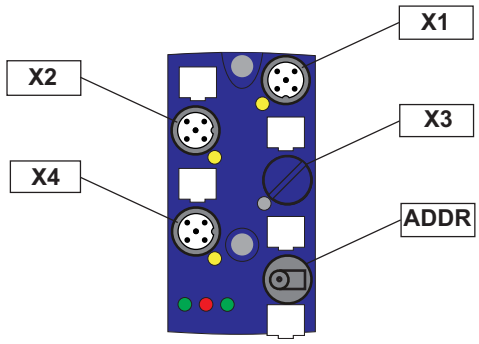
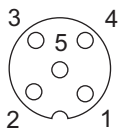
AS-i-	AS-i network, negative potential
24 $V_{out\ of\ AS-i}$	Power supply, out of AS-i, positive pole (sensor supply)
0 $V_{out\ of\ AS-}$	Power supply, out of AS-i, negative pole (sensor supply)
n.c.	not connected

Connections

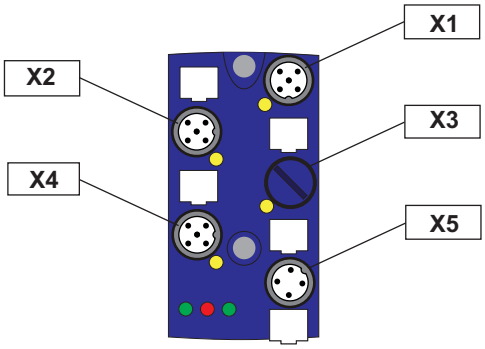
Article no.	M12 Connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU2912	**X1**	I1 (input 1)	24 $V_{out\ of\ AS-i}$	n.c.	0 $V_{out\ of\ AS-i}$	I1	n.c.
	X2	I2 (input 2)	24 $V_{out\ of\ AS-i}$	n.c.	0 $V_{out\ of\ AS-i}$	I2	n.c.
	X3	no connection (dummy plug)					
	X4	M1 (motor)	24 $V_{ext\ out}$	RS 485 TX -	0 $V_{ext\ out}$	RS 485 TX +	n.c.
	ADDR (dummy plug)	connection for AS-i addressing device					

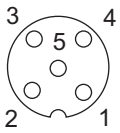




Connections

Article no.	M12 Connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU2956	**X1**	I1	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I1	n.c.
	X2	I2	24 $V_{ext\ out}$	n.c.	0$V_{ext\ out}$	I2	n.c.
	X3	no connection (dummy plug)					
	X4	M1	24 $V_{ext\ out}$	RS 485 TX -	0 $V_{ext\ out}$	RS 485 TX +	n.c.
	X5	AS-i	AS-i+	0$V_{ext\ in}$	AS-i-	24$V_{ext\ in}$	–





Notice:

- **The RS 485 bus address must be set directly on MOVIMOT. For further detailed information, please refer to the MOVIMOT documentation.**
- **The tap of the external 24V $_{ext}$ has to be protected via a resetting fuse.**

Accessories:

- **AS-i substructure module for 4-channel module in 45 mm-housing (art. no. BW2349)**
- **AS-i substructure module (CNOMO) 4-channel module in 45 mm-housing (art. no. BW2350)**
- **Passive Distributor AS-i/24 V to M12, 2 m line (article no. BW1974)**
- **Protection caps for unused M12 sockets (article no. BW2368)**