AS-i Slave for Frequency Inverters (M12)

Bihl + Wiedemann
THE AS-INTERFACE MASTERS

AS-i Slave for SEW Frequency Inverters

Infrared interface for slave addressing

**Easy triggering
of fixed frequencies**

M12 connectors

High protection class IP65

Article no. BW1856

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 ist software-compatible to the previous AS-i Slaves for SEW frequency inverters.
With infrared interface for slave addressing.

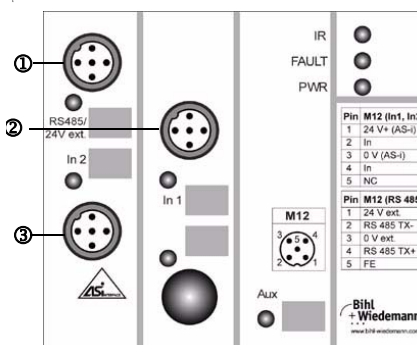| Article no.	BW1856
Serial interface	RS 485
Initial wiring	PNP
Inputs	2
Voltage supply, sensors	via 24 V ext.
Voltage range	20 ... 30 V DC
Loading capacity of inputs	≤ 13 mA
Input current high/low	≥ 5 mA/≤ 1,0 mA
Baud rates	9600 bit/s
Display	
LED green (24 V/RS 485)	RS 485 communication active
LED yellow (In 1)	state of channel 1
LED yellow (In 2)	state of channel 2
IR	infrared interface
LED red (Fault)	error
LED green (Pwr)	AS-i voltage ON
LED green (Aux)	24 V power supply ON
Connections	
AS-i and 24 V	electromechanical interface (piercing technology)
RS 485, 24 V and 2 inputs	M12 sockets
Operating current	< 80 mA
Operating voltage	AS-i (30 V DC); 18 - 32 V
Voltage of insulation	≥ 500 V
EMC	EN 61 000-6-2, EN 61 000-6-4
Ambient operating temperature	0°C … +55°C
Storage temperature	-25°C … +85°C
Housing	housing for DIN-rail mounting
Dimensions (L / W / H in mm)	90 / 80 / 43
Protection category (DIN 40 050)	housing IP65

Reasons for peripheral fault (flashing Fault LED):

- error in the inverter
- communication error to the inverter
- short circuit in the sensor supply

Connections:

Pin assignment of the RS 485 interface,
the inputs and the tap of 24 V via M12 sockets:

- The bus address must be set at the Movimot via the DIP switch "1".
- The tap of the external 24 V is protected via a resetting fuse

BW1856	
Pin	Connector (1)
1	24 V ext.
2	RS 485 TX -
3	0 V ext.
4	RS 485 TX +
5	FE

BW1856	
Pin	Connector (2+3)
1	24 V+ (AS-i)
2	In
3	0 V (AS-i)
4	In
5	not used

Accessories:

- AS-i substructure module to connect 1 AS-i flat cable, 1 flat cable for additional supply (Art. no. BW1181)
- AS-i substructure module to connect 1 AS-i round cable, 1 round cable for additional supply (Art. no. BW1183)