



Technical data		
		colour
1	+U _B	brown
3	-U _B	blue
4	Sync output	black
2	Control input	white

Fig.1: Pin assignment with view onto sensor plug and colour coding of the microsonic connection cable

Operating voltage U_B	20 - 30 V DC, reverse polarity protection
Voltage ripple	±10 %
No-load current consumption	< 30 mA
Housing	ABS
Class of protection to EN 60 529	IP 67
Type of connection	4-pin M8 initiator plug
Controls	Yes, Teach-in push-button
Indicators	1 LED yellow, 1 LED green
Programmable	No
Operating temperature	-25°C to +70°C
Storage temperature	-40°C to +85°C
Weight	13 g
Synchronisation output	pnp, U _B -2 V, I _{max} = 200 mA
Time delay before availability	< 300 ms
Order no.	SyncBox2

Operating instructions

SyncBox2

Unit for synchronisation of ultrasonic sensors from the zws range

Description of product

The SyncBox2 is able to synchronise up to 50 ultrasonic sensors from the zws range. One of 4 different repetition rates can be set via one push-button and the control input.

Assembly

- Connect the sync connection on the ultrasonic sensors with the sync output of the SyncBox2.

Synchronising sensors

- Adjust the setting as shown in the diagram »Set repetition rate« and Fig. 1.

The SyncBox2 must be adjusted to the sensor range of the ultrasonic sensors connected. If sensors with different ranges are to be synchronised, the setting of the sensor with the widest range must be selected.

according to the table.

- Teach-in for repetition rate range as shown in the diagram »Teach-in repetition rate«.
- Set the repetition rate via the control input.

Setting the repetition rate

- Determine the repetition rate according to the table.

Factory setting

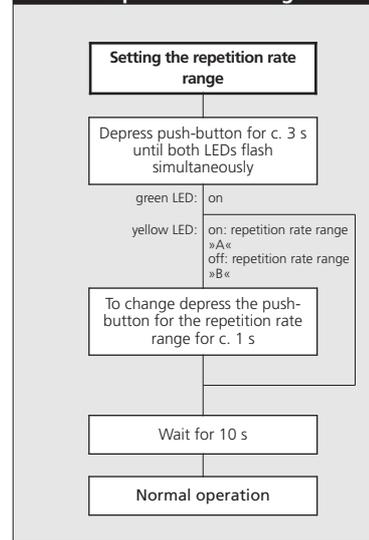
- Repetition rate set to 10 ms.

Set repetition rate

Sensor modell	Repetition rate at the sync output	Repetition rate range	Voltage at the control input	LED green	LED yellow
zws-7	2 ms	B	+U _B	on	short flashing
zws-15/.../5ms.a	5 ms	A	+U _B	on	on
zws-15, zws-24, zws-25	10 ms	A	GND / open	on	off
zws-70	14 ms	B	GND / open	on	flashing

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Teach-in repetition rate range



Maintenance

The SyncBox2 is maintenance-free.



2004/108/EC



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Description of product

The SyncBox2 is able to synchronise up to 50 ultrasonic sensors from the zws range. One of 4 different repetition rates can be set via one push-button and the control input.

Assembly

- Connect the sync connection on the ultrasonic sensors with the sync output of the SyncBox2.

Synchronising sensors

- Adjust the setting as shown in the diagram »Set repetition rate« and Fig. 1.

The SyncBox2 must be adjusted to the sensor range of the ultrasonic sensors connected. If sensors with different ranges are to be synchronised, the setting of the sensor with the widest range must be selected.

- Determine the repetition rate according to the table.
- Teach-in for repetition rate range as shown in the diagram »Teach-in repetition rate«.
- Set the repetition rate via the control input.

Setting the repetition rate

- Determine the repetition rate according to the table.

Factory setting

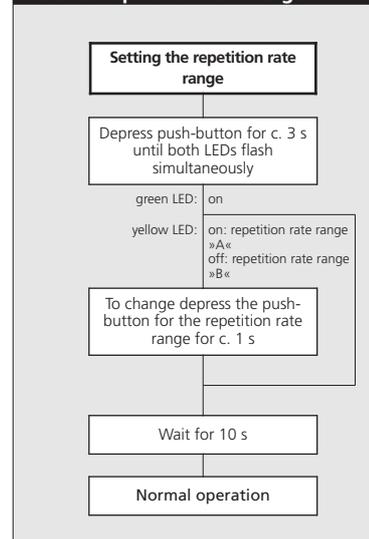
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