

Repeater Type D 3892 0000

Dupline®
Fieldbus Installationbus



- Repeaters make any transmission-distance possible (cascading of repeaters possible)
- Power-booster for applications with several Dupline®-supplied units
- Minimized delay (max. 1 Dupline® scan)
- Number of channels adjusted automatically
- H8-housing
- LED-indication for power supply, primary Dupline® OK and secondary Dupline® (follows Dupline® carrier)
- Built-in channel generator function for secondary Dupline®
- AC power supply

Product Description

The Dupline® Repeater is used to increase the distance in a Dupline® network. Furthermore, it can be used as a

"Power-booster" in sections with several Dupline®-supplied units.

Ordering Key

D 3892 0000 230

Type: Dupline®

H8-housing

Channel Generator (secondary Dupl.)

Power supply

Type Selection

Supply	Ordering no.
24 VAC	D 3892 0000 024
115 VAC	D 3892 0000 115
230 VAC	D 3892 0000 230

Input Specifications

Input	Primary Dupline®
Dielectric voltage	
Primary Dupline to	
Secondary Dupline®	≥ 2 kVAC (rms)

Supply Specifications

Power supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22	230 VAC, ±15% (IEC 60038)
	115 VAC, ±15% (IEC 60038)
	24 VAC, ±15%
Frequency	45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power	6 VA
Power dissipation	≤ 7 W
Rated impulse withstand voltage	230 4 kV
	115 2.5 kV
	24 800 V
Dielectric voltage	
Supply - Primary Dupline®	≥ 4 kVAC (rms)
Supply - Secondary Dupline®	≥ 4 kVAC (rms)

Output Specifications

Output	Secondary Dupline®
Number of outputs	1
Output voltage	8.2 VDC
Current	≤ 45 mA
Short-circuit protection	≤ 60 s
Output impedance	≤ 15 Ω
Sequence time	Follows primary Dupline®
Distance to transmitters	100%

General Specifications

Power ON delay	≤ 5 s
Indication for	
Supply ON	LED, green
Primary Dupline® OK	LED, yellow
Secondary Dupline® carrier	LED, yellow
Environment	
Degree of protection	IP 40
Pollution degree	3 (IEC 60664)
Operating temperature	0° to +50°C (+32° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80% RH
Mechanical resistance	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
Dimensions	
Material	
(see "Technical Information")	H8-housing
Weight	485 g

Mode of Operation

The Dupline® repeater is used to increase the distance in a Dupline® network. Furthermore, it can be used as "Power-booster" in sections with several Dupline® supplied units.

The repeater introduces a delay of 1 Dupline® scan when transferring pulses from secondary Dupline® to primary Dupline®, while pulses from primary Dupline® to secondary Dupline® are transferred with a max. delay of 1 ms.

When using analog transmission including synchronizer it is necessary to be cautious due to the above mentioned delay. In this case the analog transmitter should not be connected on the secondary

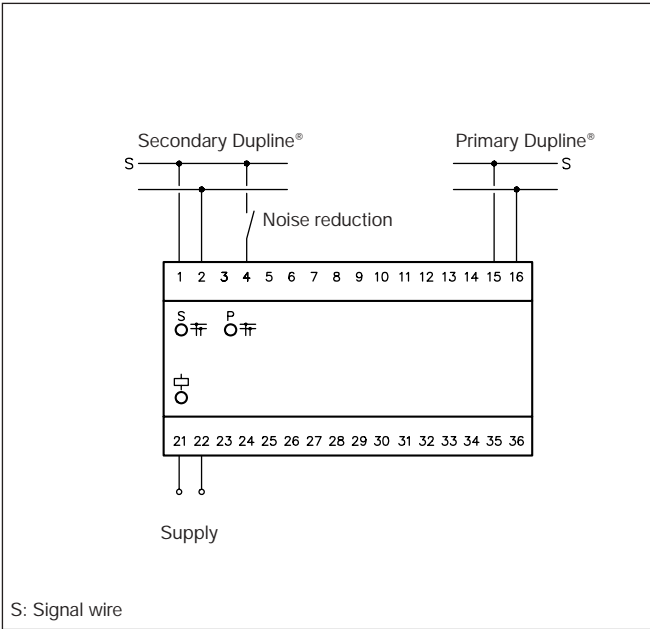
side. On the other hand the synchronizer and the analog receivers can be placed without restrictions.

By application of the Dupline® repeater there are no problems when transferring the functions of the master generator.

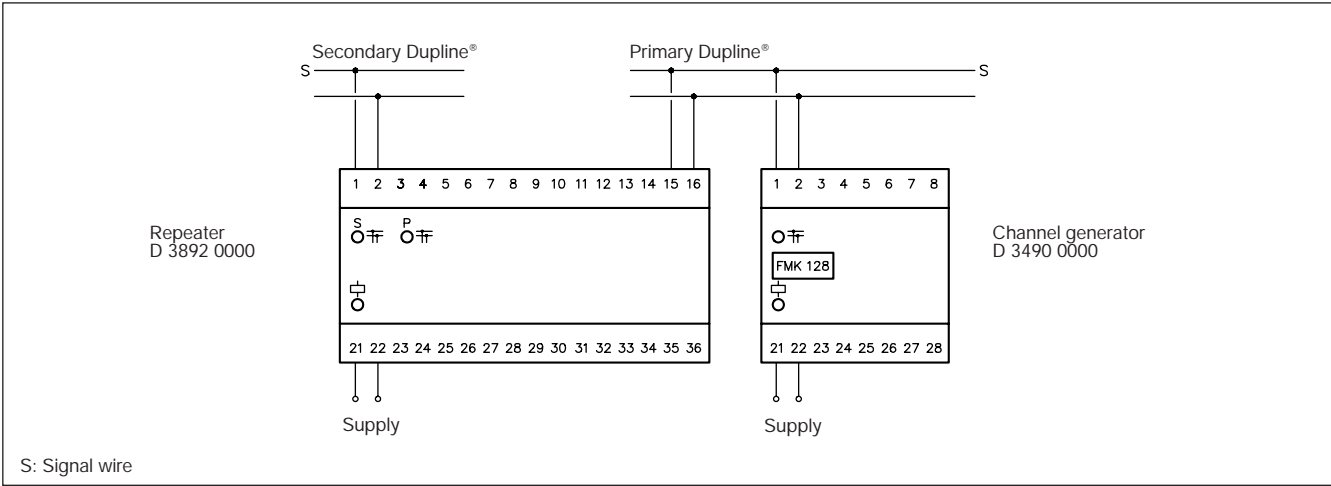
Concerning the numbers of channels the repeater adjusts itself based on numbers of channels on the input side of the Dupline® network.

The repeater has a built-in channel generator function for the secondary Dupline®. This channel generator function locks itself on to the function of the channel generator on the primary side.

Wiring Diagram



Application



Dimensions (mm)

