

# Repeater Type D 3892 0000

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- 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	<b>D 3892 0000 024</b>
115 VAC	<b>D 3892 0000 115</b>
230 VAC	<b>D 3892 0000 230</b>

## General Specifications

<b>Power ON delay</b>	≤ 5 s
<b>Indication for</b>	
Supply ON	LED, green
Primary Dupline® OK	LED, yellow
Secondary Dupline® carrier	LED, yellow
<b>Environment</b>	
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)
<b>Humidity (non-condensing)</b>	20 to 80% RH
<b>Mechanical resistance</b>	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
<b>Terminals</b>	Screwterminals
Tightening torque	0.8 Nm
<b>Dimensions</b>	H8-housing
<b>Material</b>	PC/ABS CYCOLOY C 2100
<b>Weight</b>	485 g
<b>MTBF</b>	65,000 hours

## Input Specifications

<b>Input</b>	Primary Dupline®
Dielectric voltage	
Primary Dupline to Secondary Dupline®	≥ 2 kVAC (rms)

## Supply Specifications

<b>Power supply</b>		Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22	230	230 VAC, ±15% (IEC 60038)
	115	115 VAC, ±15% (IEC 60038)
	24	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
<b>Dielectric voltage</b>		
Supply - Primary Dupline®		≥ 4 kVAC (rms)
Supply - Secondary Dupline®		≥ 4 kVAC (rms)

## Output Specifications

<b>Output</b>		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%
<b>Dupline® transmission delay from</b>		
- primary to secondary		1 mSec
- secondary to primary		max 1 Dupline® scan 136 mSec

## 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

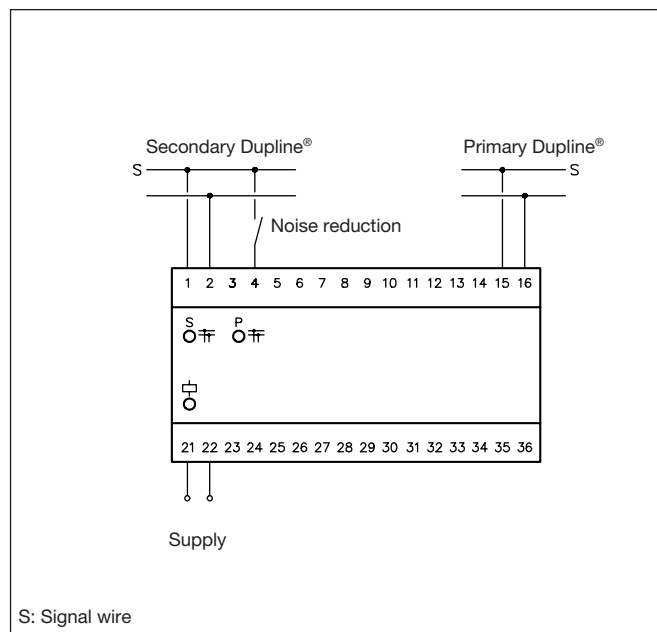
connected on the secondary side. On the other hand the synchronizer and the analog receivers can be placed without restrictions.

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

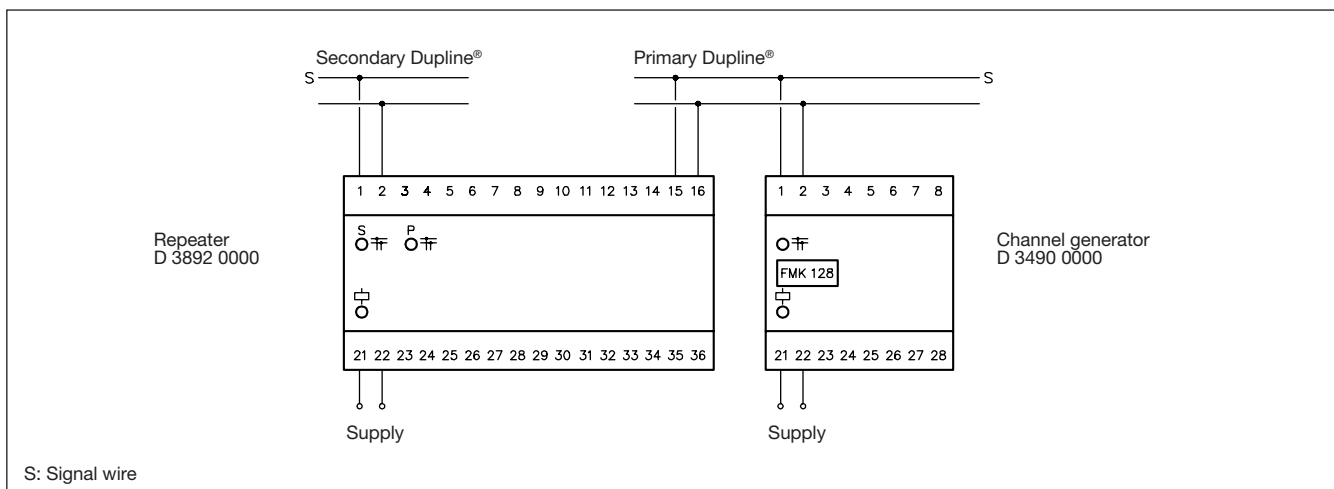
Concerning the numbers of channels the repeater adjusts itself based on numbers of channels on the input side of the Dupline® network.

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)

