

Dupline® Field- and Installationbus Repeater Type D 3892 0000

CARLO GAVAZZI



- 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)

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%

Supply Specifications

Power supply	Overvoltage cat. III (IEC 664)
Rated operational voltage through term. 21 & 22	230 VAC, ±15% (IEC 38)
115	115 VAC, ±15% (IEC 38)
24	24 VAC, ±15%
Frequency	45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power	6 VA
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)

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 664)
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

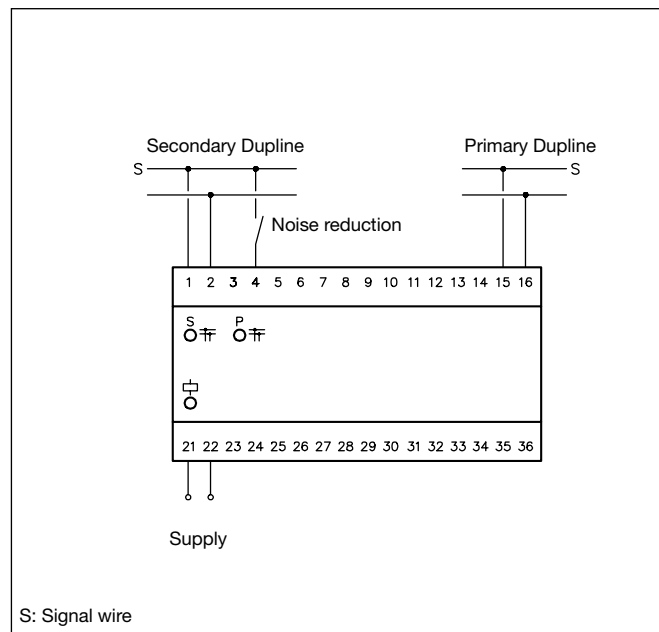
side. On the other hand the synchronizer and the analog receivers can be placed without restrictions.

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

