Channel Generator Types G 3490 0000





- Generates 8, 16, 24, 32, 40, 48, 56, 64, 96 or 128 channels
- Number of channels selectable by rotary switch
- Number of sequences (1 or 2) selectable
- cULus approved
- Quartz-controlled oscillator
- Cable compensation
- DIN-rail mounting type (G3490) (EN 50022)
- LED-indication for supply and Dupline® carrier
- AC or DC power supply

Product Description

Standard channel generators for all Dupline® systems. Number of channels select-

able by means of a rotary switch.

Ordering Key

G 34900000 230

Type: Dupline® — Channel generator Supply —

Type Selection

Supply	Ordering no. No. of channels selectable		
24 VAC	G 3490 0000 024		
115 VAC	G 3490 0000 115		
230 VAC	G 3490 0000 230		
15 to 30 VDC	G 3490 0000 824		

Input/Output Specifications

Inputs 1 contact Function 2 sequences Open loop voltage 12 VDC		Outputs (cont.) Sequence time *		Time for 1 pulse train (± 1%):
Cable length Insulation voltage Input - Dupline® Outputs Number of outputs Output voltage Current	1.25 mA ≤ 100 Ω ≤ 3 m None Dupline® carrier 1 8.2 VDC ≤ 70 mA ≤ 600 s ≤ 25 Ω	Rotary switch position: A B C D E F G H L P	No. of channels: 8 16 24 32 40 48 56 64 96 128	15.63 ms 23.44 ms 31.25 ms 39.06 ms 46.87 ms 54.68 ms 62.49 ms 70.31 ms 101.54 ms 132.80 ms 100% (refer to "Cable Selection")
		* When using 2 sequences, the sequence time will be 2 times higher.		



Supply Specifications

Power supply AC types Overvoltage cat. III (IEC 60664) Rated operational voltage through term.: 21 & 22 230 230 VAC ± 10% (IEC 60038) 115 115 VAC ± 10% (IEC 60038) 24 VAC ± 10% 024 45 to 65 Hz Frequency 4 W Power dissipation Voltage interruption ≤ 40 ms Rated operational power Typ. 2.5 VA Rated impulse withstand voltage 230 4 kV 115 2.5 kV 024 800 V Dielectric voltage Supply - Dupline® Supply - Inputs ≥ 4 kVAC (rms) ≥ 4 kVAC (rms) Power supply DC types Overvoltage cat. III (IEC 600664) Rated operational voltage through term.: 21 & 22 824 15 to 30 VDC (ripple included) Power dissipation 3 W Ripple $\leq 3 \text{ V}$ Reverse polarity protection Yes ≤ 90 mA Current consumption Inrush current ≤ 1 A Rated impulse withstand 800 V voltage Dielectric voltage Supply - Dupline® None Supply - Input ≥ 200 VAC (rms)

General Specifications

Power ON delay	≤ 3 S
Indication for Supply ON Dupline® carrier	LED, green LED, yellow
Environment Degree of protection Pollution degree Operating temperature Storage temperature	IP 20 3 (IEC 60664) -20° to +50°C (-4° to +122°F) -50° to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance Shock Vibration Dimensions	15 G (11 ms) 2 G (6 to 55 Hz)
Material (see "Technical Information")	H4-housing
Weight	250 g
Approvals	IEC/EN 61508-SIL3 EN954 cat 4 TÜV Rheinland Group c us

Mode of Operation

The channel generator generate a pulse trains and synchronize the transmission signal for an entire system of Dupline® modules. At the same time it supply nonpowered Dupline® transmitters.

The selection of 1 or 2 sequences means that 1 or 2 consecutive signals of a transmitter must show identical status until the channel generator changes the duty cycle for the respective channel. This change of duty cycle causes the receivers to change their status.

Note:

- Do not use 2 sequences if analog modules or counters are connected to the system.
- The transmission distance of a Dupline® network is reduced by 33% when using 2 sequences, compared to the figures given under "Cable Selection".

In Dupline® systems with digital transmitters and receivers the use of 2 sequences is only recommended in cases of extremely long cabling in high noise level environment. Application of 2 sequences

results in absolutely correct transmission but also in a slow reaction time for the sys-

HF disturbance that is induced to the Dupline® may be suppressed by interconnection of terminals 4 & 1 . For inductive cables a separate capacitor of less than 1 μF may be mounted between terminals 1 & 2. But in the majority of cases the cable appears to be capacitive requiring no additional capacitor.

Note: It is highly recommended to place the channel generator in the middle of a Dupline® system.

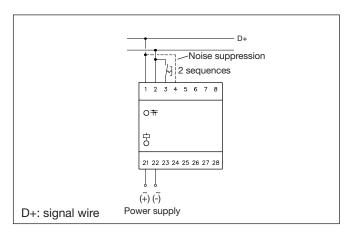


Operation Diagram

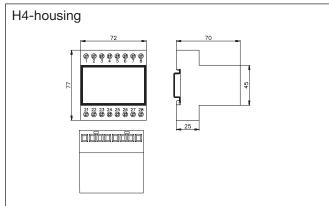
Power supply

Dupline® carrier

Wiring Diagrams



Dimensions (mm)



Accessories

DIN-rail

FMD 411

For further information refer to "Accessories".

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