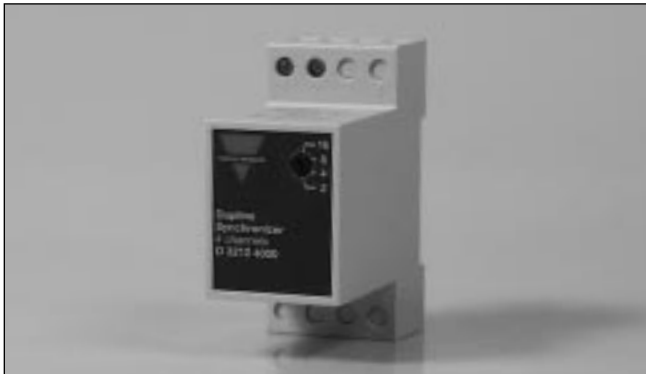


# Synchronizer Module Type D 3212 4000



- Multiplexer for analog modules
- 2, 4, 8 or 16 multiplex addresses
- Multiplex addresses on channels A1 to A4
- H2-housing
- For mounting on DIN-rail (EN 50022)
- Supplied by Dupline®

## Product Description

Dupline® transmitter with multiplexing function for multiplexed transmission of analog signals. Applicable for transmitters and display with analog inputs and built-in demul-

tiplexer (type D 6369 6475 or D 3429 61..). Increases the transmission capacity of a Dupline® system to max. 112 analog signals with 12 bit resolution.

## Type Selection

<b>Supply</b>	<b>Ordering no.</b> <b>4 channels</b> <b>Synchronizer</b>
By Dupline®	<b>D 3212 4000</b>
<b>Code module*</b>	

\* No code module required, as the synchronizer always transmits on channels A 1-4.

## Product Specifications

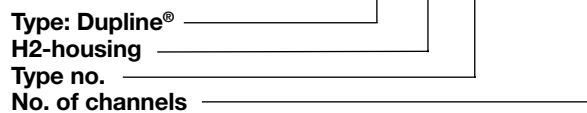
<b>Dupline connections</b>	
Signal	Terminal 1
Common	Terminal 2
<b>Selector setting</b>	Front switch
2 addresses	2
4 addresses	4
8 addresses	8
16 addresses	16
<b>Multiplex frequency</b>	1 pulse train

## Supply Specifications

<b>Power supply</b>	Supplied by Dupline®
Reverse polarity protection	Yes
Rated operational current	≤ 300 µA
Power dissipation	≤ 10 mW

## Ordering Key

**D 3212 4000**



## General Specifications

<b>Environment</b>	
Degree of protection	IP 40
Pollution degree	3 (IEC 60664)
Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)
<b>Humidity (non-condensing)</b>	20 to 80%
<b>Mechanical resistance</b>	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
<b>Dimensions</b>	
<b>Material</b> (see "Technical Information")	H2-housing
<b>Weight</b>	75 g

## Mode of Operation

Synchronizer for control of multiplexed analog modules in H4-housing.

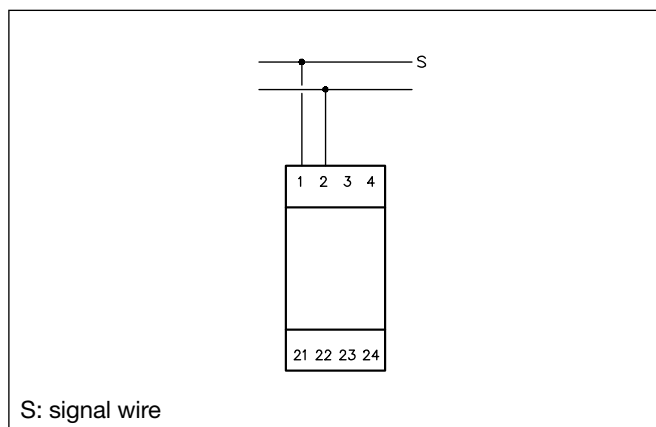
D 3212 continuously transmits binary values (addresses) on channels A1 to A4 as shown in the chart below. Every binary value enables the respective transmitters, receivers and displays in a system that uses multiplexed modules.

First, the transmitters/receivers on address 0 exchange data. In the following pulse train the transmitters/receivers on address 1 exchange data etc.

With this all modules set up to the same multiplex address exchange data for one pulse train on the channel groups they are coded for. The time until the same modules exchange data again depends on the setting of the selector switch at the front of the D 3212. The selector switch defines the number of multiplex addresses that are generated on channels A1 to A4.

**Note:** Multiplexed modules must not be used in systems where channel generators with 2 or 3 sequences are installed.

## Wiring Diagram



## Selector Setting

Selector setting				Binary value				Multiplex address
2	4	8	16	A1	A2	A3	A4	
■	■	■	■	0	0	0	0	0
				0	0	0	1	1
■	■	■	■	0	0	1	0	2
				0	0	1	1	3
■	■	■	■	0	1	0	0	4
				0	1	0	1	5
■	■	■	■	0	1	1	0	6
				0	1	1	1	7
■	■	■	■	1	0	0	0	8
				1	0	0	1	9
■	■	■	■	1	0	1	0	a
				1	0	1	1	b
■	■	■	■	1	1	0	0	c
				1	1	0	1	d
■	■	■	■	1	1	1	0	e
				1	1	1	1	f

## Accessories

DIN-rail FMD 411

For further information refer to "Accessories".

## Operation Diagram

