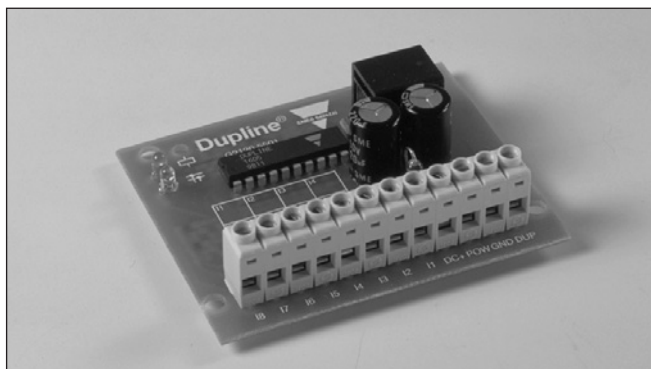


Input-Module for Elevators

Type G 2120 5501 700, G 2120 5502 700

Dupline®
Fieldbus Installationbus



- 8-channel transmitter
- 8 contact or NPN transistor inputs (G2120 5501) or 8 voltage or PNP transistor inputs (G2120 5502)
- Open printed circuit board
- Bracket for DIN-rail mounting available
- LED-indications for supply and Dupline® carrier
- DC or Dupline® supplied
- Channel coding by GAP 1605

Product Description

Dupline transmitter designed to be a part of the Dupline® concept for push buttons and lamps in elevators. Installer friendly

mounting, operation and maintenance without requirement of any special tools or programming.

Ordering Key

G 2120 5501 700

Type: Dupline® _____
 Open PCB _____
 Input-Module _____
 Number of I/Os _____
 Input type _____
 DC-supply _____

Type Selection

Supply	Ordering no. 8 contact or NPN transistor inputs	Ordering no. 8 voltage or PNP transistor input
10-30 VDC	G 2120 5501 700	G 2120 5502 700

Input Specifications Type G2120 5501

Inputs	8 contacts or NPN-transistors
Open loop voltage	8.0 VDC
Short-circuit current	17µA
Start peak current	20mA
Contact resistance	≤ 100Ω
Max voltage drop	1V
Cable length	≤ 3m
Response time	≤ 156 ms @ 128 channels
Input pulse prolongation	Typ. 0.5 s

Input Specifications Type G2120 5502

Inputs	8 voltage or PNP-transistors
Input current	< 2mA (@ 24V)
Start peak current	20 mA
Input voltage "ON"	> 9V
Input voltage "OFF"	< 1V
Cable length	≤ 3m
Response time	≤ 156 ms @ 128 channels)
Input pulse prolongation	Typ. 0.5 s

Supply Specifications

Power supply DC types	Installation cat III (IEC 60664)
Operational voltage (V _{DD in})	10-30 VDC (ripple included)
Ripple	≤ 3 V
Reverse polarity protection	Yes
Power dissipation	≤ 0.5 W
Current consumption	≤ 20 mA

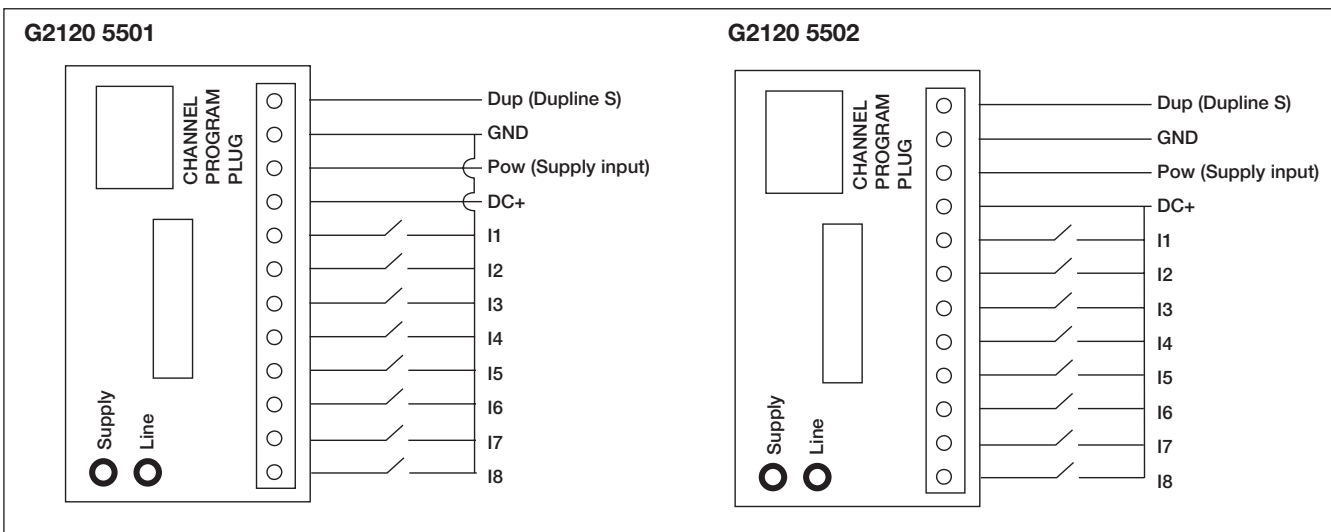
Supply Specifications (cont.)

Current consumption	
When Dupline supplied	≤ 0.9 mA
Transient protection voltage	800 V
Insulation voltage:	
Supply - Dupline®	None
Supply - Outputs	None

General Specifications

Power ON delay	Typ. 2 s
Indication for Supply ON Dupline®	LED, green carrier LED, yellow (No indication when Dupline® supplied)
Environment	
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-50 to +85°C (-58 to +185°F)
Humidity (non-condensing)	20 - 80%
Mechanical resistance	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
Dimensions	Open PCB 72,3 x 59 mm 4 pcs. of nylon PA6 snap locks are included for mounting the PCB in ø 4.8 holes
Weight	50 g

Wiring Diagrams



Pin Allocation

Pin	Input/Output
Dup	Dupline® Signal
Gnd	Dup. + Supply Gnd
Pow	Supply In
DC+	DC Out
I1	Input 1
I2	Input 2
I3	Input 3
I4	Input 4
I5	Input 5
I6	Input 6
I7	Input 7
I8	Input 8

Mode of Operation

Connect the DC supply voltage to the system through a G 2196 000X 700 Master Module, which also performs the channel generator function and the RS485 communication link to the elevator controller (please refer to the data sheet for G2196.. for details).

Every Input is given its individual address with the coding unit GAP 1605 (Please refer to the respective datasheet for details). The

ON/OFF-signal that is applied to the input of the module is associated to the address given to that input.

An input pulse stretcher (only G 2201 5501) is used on every input to assure that the changes of input signals (even extremely short ones) are communicated by the system.

No LED indication for Supply and Line when Dupline® supplied.

Accessories

Aluminum bracket for DIN mounting (Vertical)	8047-bracket
PVC bracket for DIN mounting (Horisontal)	ELEVAT-Bracket
DIN-rail	FMD 411