

# Dupline® Plug & Play Master Module Interface for Lucky Goldstar PLC Type G 3496 0001

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- Lucky Goldstar master
- Plug and play: Automatic communication with specific PLC/Controllers
- Built-in normal Dupline® Channel Generator
- 128 I/O's and DC power supply on 3 wires
- RS232/RS422/RS485 port for interfacing to control system
- Split-I/O mode selectable (128 inputs and 128 outputs)
- LED-indications for supply, Dupline® carrier and Com-port Tx
- Galvanically isolated Com-port supplied by internal DC/DC converter

## Product Description

G 3496 0001 is designed as a cost-effective Plug & Play solution for interfacing Dupline® I/O's to a Lucky Goldstar PLC. It performs three functions: Dupline®

channel generator, power supply synchronization (enables 3-wire system with supply) and RS232/RS422/RS485 interface.

## Ordering Key

**G 3496 0001 700**

Type: Dupline® \_\_\_\_\_  
H4-Housing \_\_\_\_\_  
Combined module \_\_\_\_\_  
Interface type \_\_\_\_\_  
DC supply \_\_\_\_\_

## Type Selection

### Supply

20-30 VDC

### PLC Interface type

Lucky Goldstar K-serie

### Ordering no.

G 3496 0001 700

## Input/Output Specifications

### Power output

Output voltage 20-30 VDC (pulsating)  
Output current < 3.0 A @ 50°C  
Short circuit protection 4 A quick acting fuse  
Output voltage drop < 1.0 V

### Dupline® carrier

Output voltage 8.2 V (pulsating)  
Current < 60 mA  
Short circuit protection Yes  
Scan time  
128 channels 132.2 ms  
64 channels 69.8 ms

### Communication port

Standard RS232/RS422/RS485  
Split I/O mode Yes, selectable  
Normal Dupline mode Yes, selectable  
Connection 9 pole female Sub-D  
Dielectric voltage 1 kVAC (rms)  
Com-port Dupline® LG Serial Communication  
Protocol Standard  
Baud rate 19200  
Data bits 8  
Start bit 1  
Stop bit 1  
Parity None  
Flow-control None

## Input/Output Specifications (Cont.)

### Pin assignment

2-wire RS 485  
S/R Data line + (B)  
S/R Data line - (A)  
GND

### 4-wire RS 485/RS 422

R Data line + (B)  
R Data line - (A)  
S Data line + (B)  
S Data line - (A)

### Direction

### RS 232

TX  
RX  
GND

Pin 3  
Pin 8  
Pin 5

Pin 3  
Pin 8  
Pin 2  
Pin 7  
Pin 4

(Connect to GND pin 5 when using 4-wire communication)

Pin 1  
Pin 9  
Pin 5

## Supply Specifications

### Power supply

Operational voltage ( $V_{in}$ )  
Reverse polarity protection  
Current consumption  
Power dissipation  
Transient protection voltage  
Dielectric voltage  
Supply - Dupline®  
Supply - com-port

Overvoltage cat. III (IEC 60664)

20-30 VDC

None

< 150 mA + Power load

< 5 W

800 V

None

1 kVAC (rms)

**Note:** Use individual power supplies for all G349600xx700, as the input are not galvanic isolated from each other.



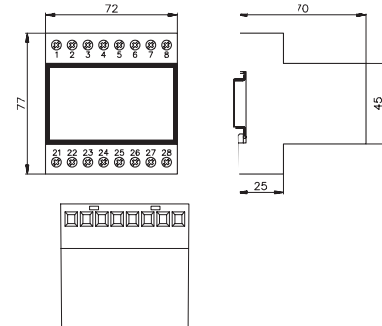
## Memory Mapping

Table of the memory mapping

Dupline® Channel	Lucky Goldstar		Dupline® Channel	Lucky Goldstar	
	Read	Write		Read	Write
A1	M000	M080	E1	M020	M100
A2	M001	M081	F1	M028	M108
A3	M002	M082	G1	M030	M110
A4	M003	M083	H1	M038	M118
A5	M004	M084	I1	M040	M120
A6	M005	M085	J1	M048	M128
A7	M006	M086	K1	M050	M130
A8	M007	M087	L1	M058	M138
B1	M008	M088	M1	M060	M140
B8	M00F	M08F	N1	M068	M148
C1	M010	M090	O1	M070	M150
D1	M018	M098	P1	M078	M158

## Dimensions (mm)

H4-housing



## Additional Information

### Scope of supply

1 x Master Module

G3496 0001 700

## Accessories

Cable for Communication port

RS485-CAB