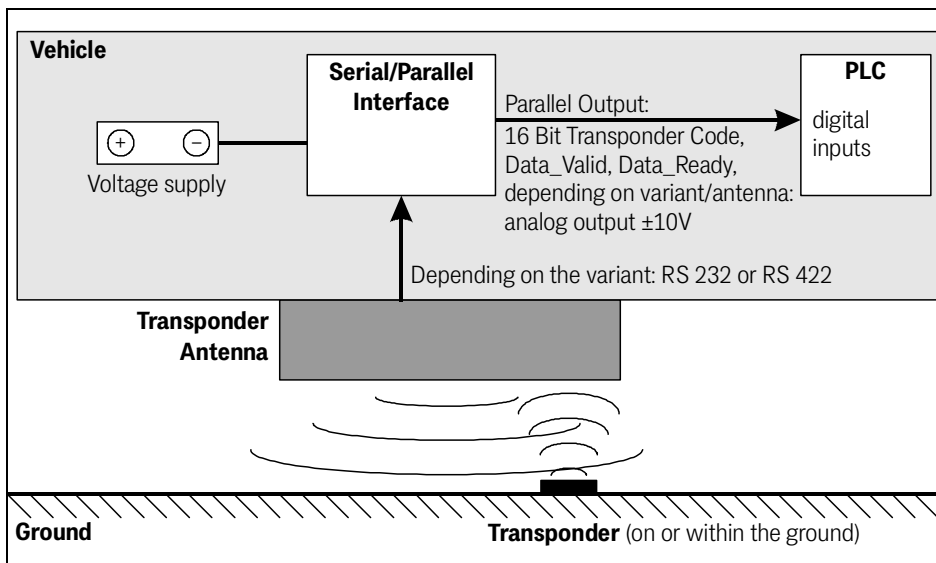


Transponder

Operational Description



Overview

- Interface for the transmission of data from Götting transponder antennas with serial data interface to PLC with digital inputs
- Variants for RS 232 and RS 422 (see table *Variants* on the back)
- Housing for top hat rail mounting (switch cabinet)
- Power supply +24V
- LED to indicate data transmission
- Output of transponder code (16 bit), Data_Ready and Data_Valid (1 bit each)
- Depending on variant and transponder antenna: analog output $\pm 10V$ lateral deviation

The serial/parallel interface allows the transmission of the transponder code of a Götting transponder antenna connected via the serial interface – depending on the variant RS 232 or RS 422 – to a PLC with digital inputs. The interface comes in a housing suitable for top hat rail mounting.

The telegrams of the transponder antenna are received via the serial input of the interface. For control purposes, an LED is visible through the transparent cover. It lights up when serial telegrams are decoded. These telegrams are only generated by the antenna if there is a transponder in the field.

From the telegrams the transponder code is converted into a 16 bit parallel output. The code is present at the outputs until a new code is received.

In addition, 10 ms after the code bits are available a Data_Ready pulse of 100 ms length is generated when the antenna crosses a transponder. This means that the same transponder generates a new Data_Ready pulse when it re-enters the antenna field (e.g. due to a change of direction).

The Data_Valid signal indicates whether there is a transponder under the antenna. If there is no transponder in the field, 0 V is output. The parallel outputs, Data_Ready and Data_Valid are switched against 24V when activated and are not current limited. They are also not electrically isolated.

With the antennas of the types HG G-98810, HG G-98820, HG G-98830 and HG G-98850, the lateral deviation in the direction of travel is also output as an analog voltage in the range $\pm 10 V$ if the antenna parameters are set accordingly.

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📄 Product page: <http://goetting-agv.com/components/06150>

GÖTTING

Mounting / Commissioning

Mounting

The device has a housing for mounting on a top-hat rail in a switch cabinet. For mounting:

- Mount the housing on a top-hat rail
- Connect power supply
- Establish the connection to the serial interface of the transponder antenna
- Establish the connection to the digital inputs of the PLC

Commissioning

- Configure the antenna so that the appropriate telegram is output via the serial interface. How to do this is described in the device description of the respective transponder antenna.
- If the setting is correct, the LED on the circuit board lights up.

Variants

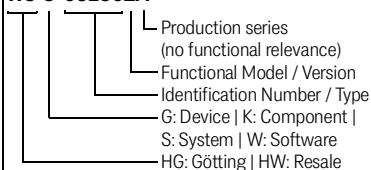
Version	Interface
HG G-06150XA	RS 232 no analog output
HG G-06150YA	RS 232
HG G-06150ZA	RS 422

Can be used with the following antennas

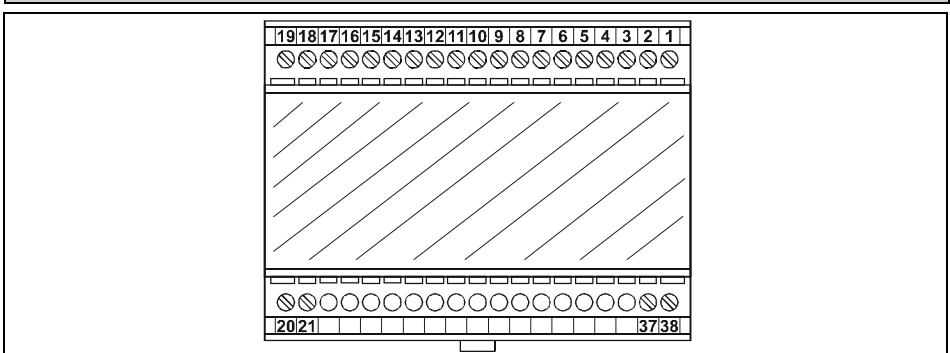
Antenna	Variant
HG G-71450 / RS 232	HG G-06150XA
HG G-98760 & HG G-98780 - Y/W: RS 232 - Z/X: RS 422	- HG G-06150YA - HG G-06150ZA
HG G-98810 - Y: RS 232 - Z: RS 422	- HG G-06150YA - HG G-06150ZA
HG G-98820 / RS 232	HG G-06150YA
HG G-98830 / RS 232	HG G-06150YA
HG G-98850 - Y: RS 232 - Z: RS 422	- HG G-06150YA - HG G-06150ZA

Götting Product IDs (order codes)

HG G-06150ZA



Pin Allocations



Outputs		Inputs	
		Variant ZA	Variant YA / XA
1	Code Bit 1 (low bit)	20 Rx+ (RS 422 Input)	RxD (RS 232 Input)
2	Code Bit 2	21 Rx- (RS 422 Input)	-
3	Code Bit 3	22	
4	Code Bit 4	23	
5	Code Bit 5	24	
6	Code Bit 6	25	
7	Code Bit 7	26	
8	Code Bit 8	27	
9	Code Bit 9	28	
10	Code Bit 10	29	-
11	Code Bit 11	30	
12	Code Bit 12	31	
13	Code Bit 13	32	
14	Code Bit 14	33	
15	Code Bit 15	34	
16	Code Bit 16 (high bit)	35	
17	Data_Ready	36	
18	Data_Valid	37	+24 V Voltage supply
19	Depending on the antenna: ±10V lateral deviation	38	GND

Technical Data

Dimensions	75 x 75 x 47.5 mm L x W x H
Casing	Housing for mounting on a top-hat rail, 38 pin
Environmental conditions	Temperature range 0 to +50° C, protection class IP 55
Voltage supply	+24 V ±10 %, approx. 50 mA
Mechanical resilience	5 g 11 ms / 2g 10 to 55 Hz
Connection	Screw terminals
Data input	Depending on the variant: RS 232 or RS 422
Data outputs	16 x code + 2 x data signal, 24 V, not electrically isolated and not short-circuit proof
Analog output	±10 V, short-circuit proof