PCM-Decoder

G 17100-A

Functional Description

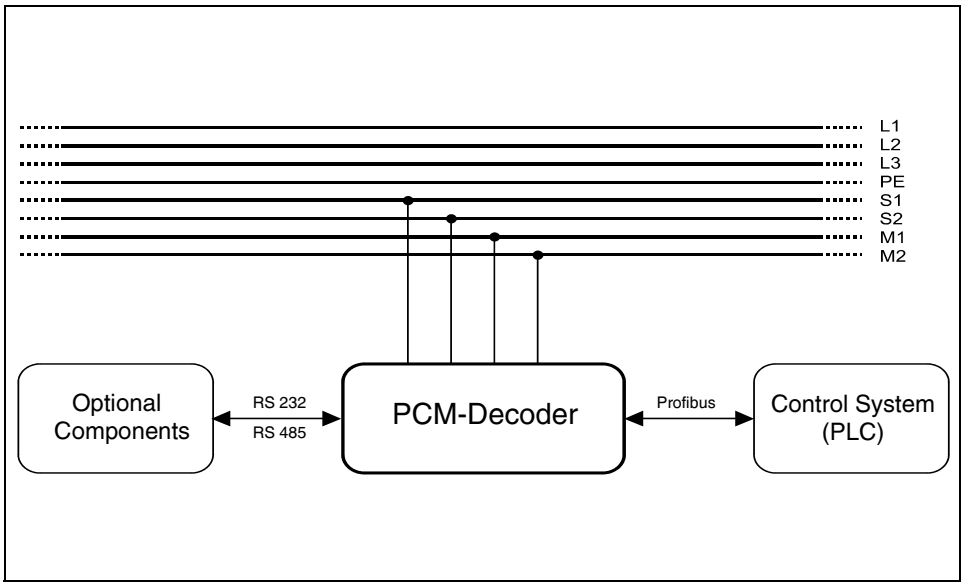
The PCM- Decoder G 17100 is used for a bidirectional communication via bus bars as they are applied e.g. in connection with monorail systems or ground floor conveyors. Generally this requires 1 or 2 control bars for activation of the mobile vehicle control from the stationary system control.

For the acknowledgement of signals from the vehicle control to the stationary system control 1 up to 2 record bars are available as well. The transmission of the signals results from net- synchronously coded half waves. This has been tested and proven as a reliable and secure technique.

The communication with the mobile vehicle control is implemented by Profibus DP-V0. For the coupling of additional components an asynchronous serial interface with RS 232 or RS 485 is provided.

An Overview of the most important technical Features

- **Reception and decoding of net-synchronous PCM-Signals of control bar 1**
- **Evaluation of positive and negative half waves of control bar 1 and 2**
- **Output of positive resp. negative half waves on message bar 1 and 2**
- **Communication with the control system as a Profibus-Slave DP- V0**
- **Serial Communication with other components via RS 232 or RS 485 (optional)**
- **Mounting bar with connection to protector ground**



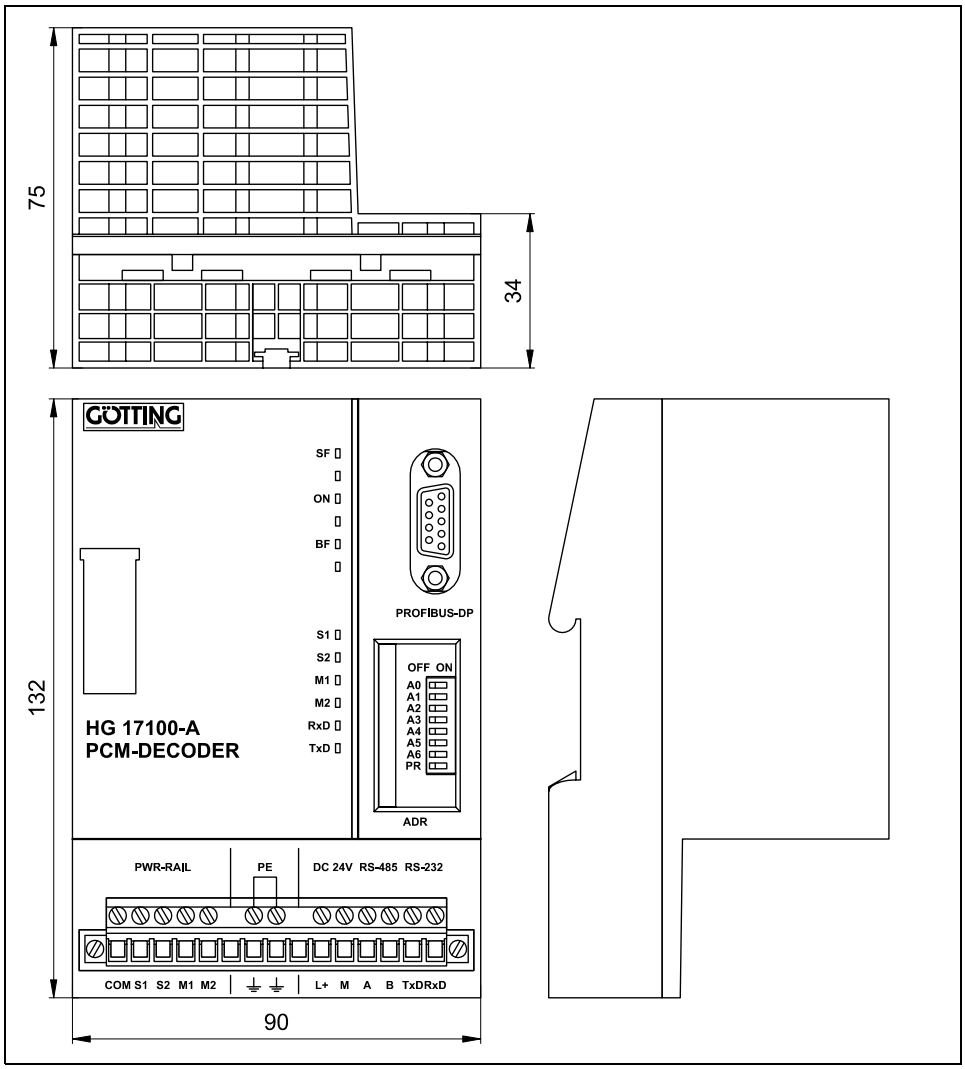
Schematic Representation

GÖTTING

PCM-Decoder

G 17100-A

Housing Dimensions



Sketch:
Dimensions and Display Elements

ST	Pin	Signal
ST1	1	RxD (RS 232)
	2	TxD (RS 232)
	3	Line B (RS 485)
	4	Line A (RS 485)
	5	GND Supply
	6	L+ +24 V
	8	PE Protective Earth
	9	PE Protective Earth
	11	M2 message line
	12	M1 message line
	13	S2 control line
	14	S1 control line
	15	COM reference phase

Table:
Pin Assignments

Technical Data

- **Housing**	**90 x 132 x 75 mm (W x H x D); Polycarbonat e (PC)**
- **Weight**	**300 g**
- **Protection class**	**IP 20**
- **Operating voltage**	**DC 18 to 36 V**
- **Current consumption**	**120 mA at 24 V**
- **Connectors**	**- 15-pin plug (Phoenix Contact)** **- 9-pin Sub-D plug (Profibus DP)**
- **Relative humidity at 25° C**	**95 % (without condensation)**
- **Ambient temperature range**	**0 to +60° C**
- **Storage temperature**	**-40 to +70° C**

Götting KG, Celler Straße 5, D-31275 Lehrte/Röddensen (Germany), Tel.: +49 (0) 51 36 - 80 96 -0, Fax: +49 (0) 51 36 - 80 96 -80, eMail: hg@goetting.de, Internet: www.goetting.de

Date: 13.11.2003
English, Rev. 01
Author(s): RAD / A.F.