



## AS-Interface gateway

### VBG-CCL-G4F

- Gateway according to AS-Interface specification 2.1 for up to 62 units
- AS-Interface connection via flat cable and EMS standard bottom section (included delivery)
- Degree of protection IP65
- Voltage supply from AS-Interface
- PLC functionality
- Error diagnostics via LEDs and LC display

### CC Link Gateway IP65



### Function

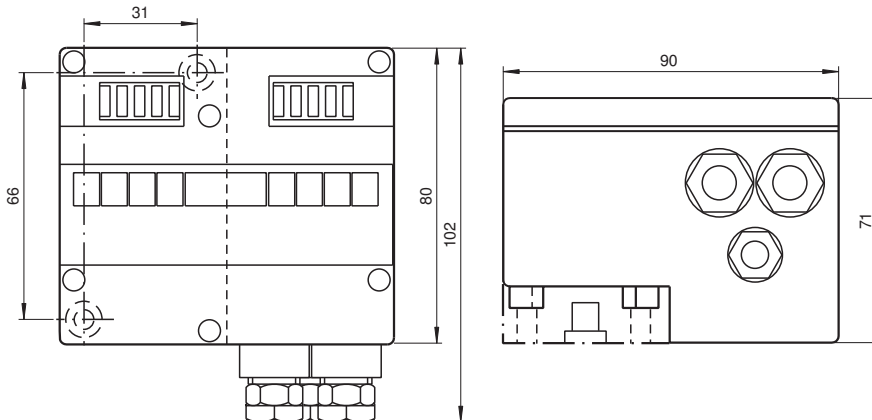
The VBG-CCL-G4F is a complete CC-Link master for use in the field (IP65). The gateway's G4 field housing has the same advantages as the serial master in this design.

Two buttons are used for address assignment of the AS-Interface slaves and acceptance of the desired configuration. In configuration mode, all detected AS-Interface slaves are displayed on the 2-digit LCD. In normal operation, the LCD is blank unless the master detects a faulty AS-Interface slave. The LEDs, located on the front panel, show the current status of the AS-i line.

#### PLC Functionality

The VBG-CCL-G4F provides 16 kBytes of program memory, 8 kBytes of main memory, 1024 counters and 1024 timers for PLC functionality. These capacities suffice to process the data on the AS-Interface. Thus the master can also be operated in "stand-alone" mode. The program processing time is 2 ms per 1000 word commands. The programming language is based on the STEP5 programming language. The AS-Interface CTRL functions (upload, download, start, stop, read or write internal memory) are available in expanded mode.

### Dimensions



### Technical Data

#### General specifications

AS-Interface specification	V2.11
PLC-Functionality	integrated
Diagnostics function	integrated

#### Indicators/operating means

Display	LED display, 2 digits, for addressing and error messages
LED SD	CC Link send data; LED green
LED RD	CC Link receive data; LED green

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

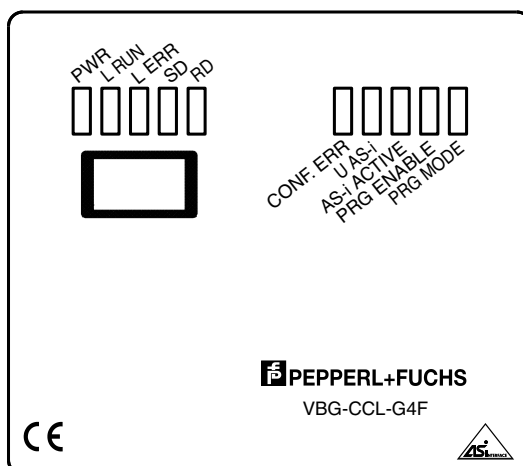
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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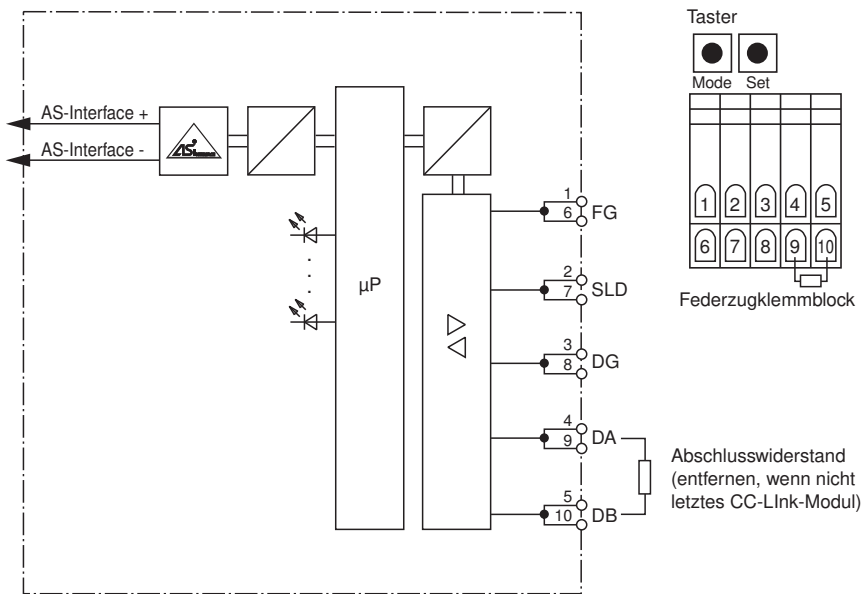
## Technical Data

LED AS-i ACTIVE		AS-Interface operation normal; LED green
LED CONFIG ERR		configuration error; LED red
LED PWR		voltage ON; LED green
LED L RUN		CC link in operation; LED green
LED L ERR		CC Link error; LED red
LED PRG ENABLE		autom. programming; LED green
LED PRG MODE		projecting mode active; LED yellow
LED U AS-i		AS-Interface voltage; LED green
Switch SET		Selection and setting of a slave address
Button MODE		Mode selection/save configuration
<b>Electrical specifications</b>		
Insulation voltage	$U_i$	$\geq 500$ V
Rated operating voltage	$U_e$	from AS-Interface
Rated operating current	$I_e$	$\leq 200$ mA from AS-Interface
<b>Interface</b>		
Interface type		remote device, 3 occupied stations
Protocol		according to CC-Link specification
Transfer rate		156 kBit/s up to 10 MBit/s
<b>Connection</b>		
AS-Interface		cable piercing technology
CC Link		Cable gland M16 x 1.5 and cage spring terminals
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 62026-2:2013
<b>Standard conformity</b>		
Degree of protection		EN 60529:2000
AS-Interface		EN 62026-2:2013
<b>Ambient conditions</b>		
Ambient temperature		0 ... 55 °C (32 ... 131 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
<b>Mechanical specifications</b>		
Degree of protection		IP65
Material		
Housing		PA 6 GF30
Mass		355 g
Construction type		Plastic housing with cable gland



## Assembly



Connection



Accessories

	<b>U-G1P</b>	AS-Interface module mounting base for connection to round cable (AS-Interface)
	<b>VAZ-G4-B1</b>	Blind plug M12

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## Programming

No additional software is required.

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