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# Metal code bar

# PGV000001M-CAMG30x500-000175

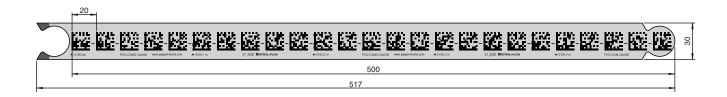
- High temperature resistance
- High mechanical stability
- Easily exchangeable
- Chemically highly resistant

DataMatrix metal code bars for positioning PGV read heads

### **Function**

Rugged Data Matrix metal code bars made of anodized aluminum for use on the ground in camera-based track guidance. Depending on the application, the code bars can be glued directly to the floor, or glued into special carrier profile rails. The code bars are available in modular lengths of 100, 200, and 500 mm.

## **Dimensions**



# **Technical Data**

General specifications	
Total length	1 m
Start position	175 m
Code bar segment	
Nominal segment length	500 mm
Width	30 mm
Ambient conditions	
Operating temperature	-40 80 °C (-40 176 °F)
Installation temperature	10 40 °C (50 104 °F)
Environmental resistance	UV radiation Humidity
Chemical resistance	Oils Grease Fuels Aliphatic solvents Weak acids
Mechanical specifications	
Material thickness	1 mm
Material	Aluminum
Mounting type	adhesive
Mass	83 g/m

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

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## Mounting

#### **Preparing the Base Surface**

- 1. Use clean cleaning cloths (free from lint and plasticizers) to clean the surfaces.
- 2. Use cleaning agents appropriate for the level of surface contamination, for example n-Heptane, ethanol, or a 50:50 mixture of isopropanol and
- 3. Clean the surface until it is completely dry and free of dust, oil, oxides, release agents, and other contaminants.
- 4. Ensure that the surface is dry, clean, and stable.

#### Adhesive Strength

Metal	Material with high-energy surfaces	Material with low-energy surfaces
33 N/25 mm	32 N/25 mm	31 N/25 mm

Material thickness: 1 mm code bar + 0.13 mm adhesive

#### **Processing Instructions**

During bonding, the pressure should be as high as possible, and the temperature should be at least +10 °C. The higher the pressure and temperature, the better the adhesive will penetrate the pores of the base surface. This allows higher adhesive strength values to be achieved. It takes approx. 72 hours for the adhesive to cure.

## **Type Code**

#### Structure of the type code

Р	G	٧	(1)	(1)	(1)	(1)	(1)	(1)	M	-	С	Α	M	(2)	(3)	(3)	X	(4)	(4)	(4)	-	(5)	(5)	(5)	(5)	(5)	(5)

PGV	Sensor Type
PGV	Position Guided Vision

(1) (1) (1) (1) (1) (1)	Total length of the code bar
	The total length of the code bar is determined by the number of individual code bar segments. The code bars can be ordered in 1 m units.

	М	Unit
Ī	M	Meter

CAM	Code bar
С	Code type ECC200, symbol size 12x12
Α	Absolute code
M	Metal

(2)	Mounting Type
G	Mounting by self-adhesive back
Н	Mounted by screwing or riveting

(3) (3)	Code Bar Width
30	Width of the code bar in mm for mounting type G
50	Width of the code bar in mm for mounting type H

(4) (4) (4)	Nominal segment length of the code bars
100	Nominal segment length of the individual code bars in mm
200	Nominal segment length of the individual code bars in mm
500	Nominal segment length of the individual code bars in mm

(=) (=) (=) (=) (=)	
(5) (5) (5) (5) (5)	Start position
1 9.999	Start position of the code bars in m

## **Accessories**

	PGV-PR-GM-CLOSE100	Countersunk rail for mounting in a floor groove
19	PGV-PR-GM-CLOSE200	Countersunk rail for mounting in a floor groove



**Accessories** 

# PGV-PR-GM-CLOSE500 Countersunk rail for mounting in a floor groove PGV-PR-GM-CONT100 Countersunk rail for realization of continuous tracks PGV-PR-GM-CONT200 Countersunk rail for realization of continuous tracks PGV-PR-GM-CONT500 Countersunk rail for realization of continuous tracks PGV-PR-GM-END Countersunk rail to end continuous tracks **PGV-PR-GM-START** Countersunk rail for starting continuous tracks PGV-PR-SM-CLOSE100 Drive-over rail to mounting on the floor PGV-PR-SM-CLOSE200 Drive-over rail to mounting on the floor PGV-PR-SM-CLOSE500 Drive-over rail to mounting on the floor PGV-PR-SM-CONT100 Drive-over rail to realize endless tracks PGV-PR-SM-CONT200 Drive-over rail to realize endless tracks PGV-PR-SM-CONT500 Drive-over rail to realize endless tracks PGV-PR-SM-END Drive-over rail to end continuous tracks **PGV-PR-SM-START** Drive-over rail for starting continuous tracks