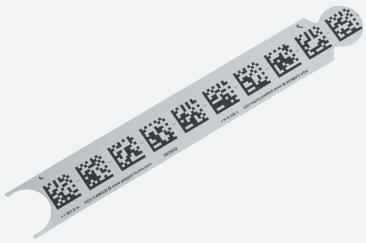
Metal code bar

PGV000008M-CAMG30x200-000176



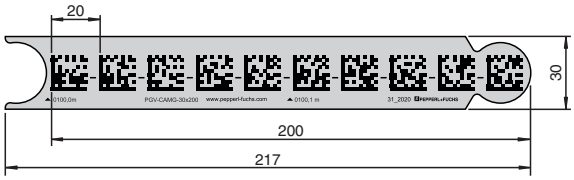
- High temperature resistance
- High mechanical stability
- Easily exchangeable
- Chemically highly resistant

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		8 m
Start position		176 m
Code bar segment		
Nominal segment length		200 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

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Technical Data

Manufacturing tolerance		± 1 mm/m

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 water.
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

P	G	V	(1)	(1)	(1)	(1)	(1)	(1)	M	-	C	A	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
1 ... 10.000	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.

M	Unit
M	Meter

CAM	Code bar
C	Code type ECC200, symbol size 12x12
A	Absolute code
M	Metal

(2)	Mounting Type
G	Mounting by self-adhesive back
H	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) (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
	**PGV-PR-GM-CLOSE200**	Countersunk rail for mounting in a floor groove

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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

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