# Metal code bar

PXV000010M-AAMG30x500-000152

- High temperature resistance
- High mechanical stability
- Easily exchangeable
- Chemically highly resistant
- 2-colored Data Matrix codes

DataMatrix metal code bars for positioning safePXV and safePGV 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
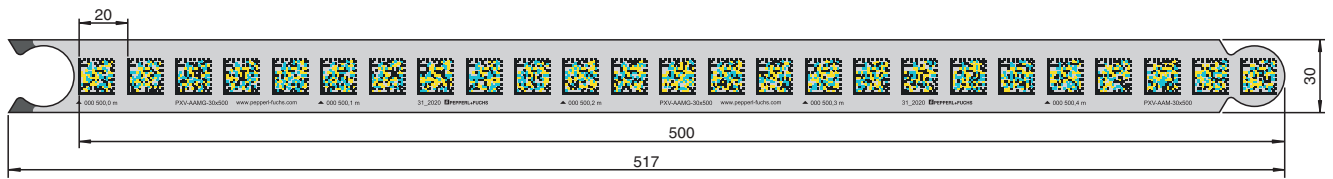
Technical Data

General specifications	
Total length	10 m
Start position	152 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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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	X	V	(1)	(1)	(1)	(1)	(1)	(1)	M	-	A	A	M	(2)	(3)	(3)	x	(4)	(4)	(4)	-	(5)	(5)	(5)	(5)	(5)	(5)

PXV	Sensor Type
PXV	Position Extended Vision

(1) (1) (1) (1) (1) (1)	Total length of the code bar
1 ... 100.000	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

AAM	Code bar
A	Code type ECC200, symbol size 16x16
A	Absolute code
M	Metall

(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 lengthof the individual code bars in mm
500	Nominal segment lengthof the individual code bars in mm

(5) (5) (5) (5) (5) (5)	Start position
1 ... 99.999	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
	PGV-MG30-START-END-SET	Opening segment and closing segment (kit)

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