

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	4 m					
Start position	734 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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### Metal code bar

### 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

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F	>	Х	V	(1)	(1)	(1)	(1)	(1)	(1)	М	-	Α	Α	М	(2)	(3)	(3)	х	(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.
М	Unit
М	Meter
AAM	Code bar
A	Code type ECC200, symbol size 16x16
A	Absolute code
Μ	Metall
(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 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