

# Metal code bar

## PXV-AAM



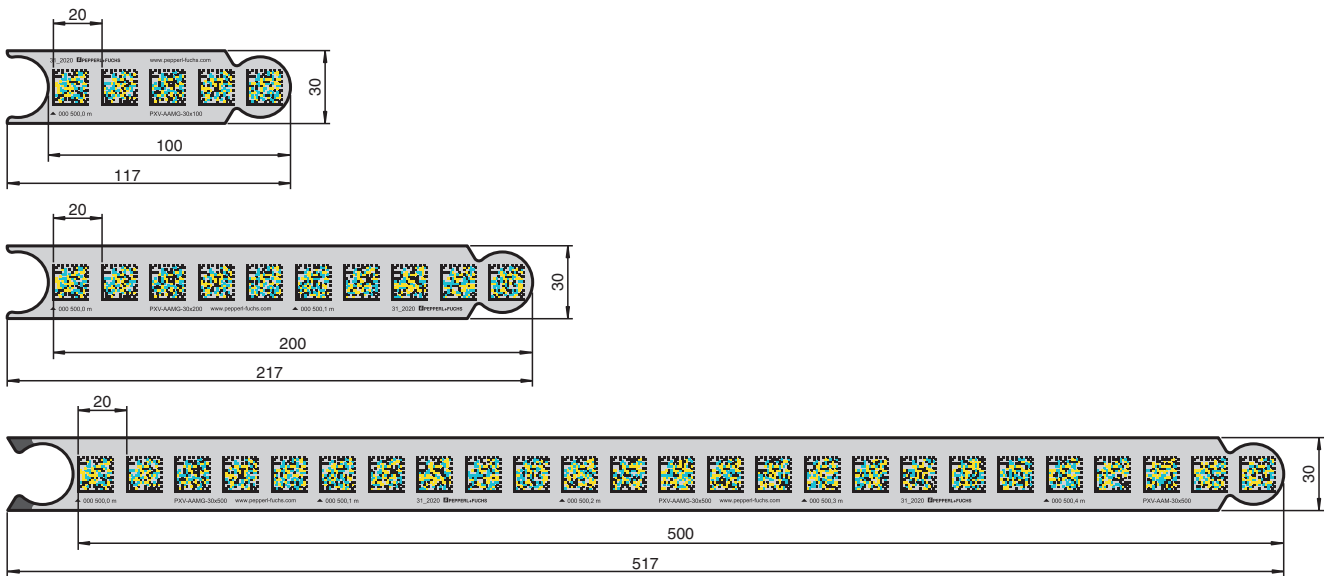
- High temperature resistance
- High mechanical stability
- Easily exchangeable
- Chemically highly resistant
- 2-colored Data Matrix codes

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	1 ... 100000 m
Start position	1 ... 99999 m
Code bar segment	

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## Technical Data

Nominal segment length	100 mm 200 mm 500 mm
Width	30 mm 50 mm
<b>Ambient conditions</b>	
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
<b>Mechanical specifications</b>	
Material thickness	1 mm
Material	Aluminum
Mounting type	adhesive screwing
Mass	83 g / m
Manufacturing tolerance	± 1 mm/m
Storage	Maximum 2 years under normal storage conditions.

## Mounting

### Mounting Instructions for Adhesive Mounting Type

#### 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. After about 72 hours, the adhesive is cured.

## Type Code

### Structure of the type code

P	X	V	(1)	(1)	(1)	(1)	(1)	(1)	(1)	M	-	A	A	M	(2)	(3)	(3)	x	(4)	(4)	(4)	-	(5)	(5)	(5)	(5)	(5)	(5)
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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

## Type Code

(2) Mounting Type	
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 ... 99.999	Start position of the code bars in m