

CONTENT OF BARCODE 128

USED TO IDENTIFICATION DOMESTIC POSTAL SHIPMENTS

The basic structure of the **128 barcode** used to identify domestic postal shipment is as follows:

Initial character B	Data field	Control character	Final character
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1. Bar code structure for identifying shipment

The 128 barcode has 12 data characters and is created systemically according to the structure described below:

Type of shipment	Individual shipment	Check digit
A1-A2	S1 – S9	K

- 1) In the field "**Type of shipment**" in items A1-A2, the type of postal item is marked with letters. The field can be 1 to 2 characters long.
- 2) In the "**Individual shipment number**" field, the digits in positions S1 to S9 create an individual postal shipment number of a given type.
- 3) In the "Check digit" field, a check digit is placed, calculated automatically according to the following algorithm:

The digits from positions S1 to S9 are multiplied successively by the following weights: 8,6,4,2,3,5,9,7,8, then the individual results are summed up, the sum is divided by 11 and the remainder of the division is calculated:

- a) if the remainder is 0, the check digit is 5,
 - b) if the remainder is 1, the check digit is 0,
 - c) in other cases, the check digit is the result of subtracting the remainder from 11.
- 4) Example of calculation of the check digit for a field with a length of 9 digits:

Number without check digit	6	2	6	8	9	4	5	9	2				
Multiply by	x 8	x 6	x 4	x 2	x 3	x 5	x 9	x 7	x 8				
The sum	48 +	12 +	24 +	16 +	27 +	20 +	45 +	63 +	16				271
The sum 271 is divided by 11. The result is equal to 24 and the rest is 7.													
11 less 7 is equal to 4: check digit is 4													
Number with check digit 6268945924													

2. Parameters of the 128 Barcode

Parameters	Dimensions
The minimum width of the narrow element X (module)	0,381 mm
The minimum field around the code free of inscriptions and prints	5 mm
Barcode minimum height	25 mm
Overall code quality of SC	> 3,5
Required minimum area for code and area around code for postal items	H min. = 35 mm L min. = 74 mm

The digital interpretation of the barcode is placed directly below the code in a 3 mm field free of inscriptions and printing. The height of the digits must not be less than 2 mm.

3. Example of barcode

1. Barcode for identification of domestic Pocztex shipment:



PX 626 894 592 4

2. Interpretation of data contained in barcodes:

PX	- type of shipment,
626894592	- a nine-digit individual shipment number,
4	- check digit