

CONTENT OF THE CODE 39 BAR CODE WHICH SERVES TO IDENTIFY DOMESTIC CONSIGNMENTS POCZTEX EKSPRES 24

Basic structure of **Code 39** which serves to identify domestic consignments POCZTEX Ekspres 24:

Starting sign	Data field	Control sign of code's symbol	Stop sign
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1. Bar code structure for identifying consignments Code 39

Barcode 39 has 13 data characters, created by the system under following structure:

Kind of consignment	Unique number of consignment	Control sign	Country of shipment
EE	S3 - S10	K	PL

- The kind of consignments is described by letters in field „**Kind of consignment**” – letters „EE” means the consignment POCZTEX Ekspres 24.
- Digits in positions from S3 to S10 create unique eight-digit number of consignment.
- Control digit which is calculated automatically by standard Code 39 algorithm in "**Control digit**" field:
- Digits in positions from 3 to 10 are multiplied by digits: 8,6,4,2,3,5,9,7. Results are summarized and final sum is divided by 11. If the rest of dividing is equal to:
 - 0, check digit is 5,
 - 1, check digit is 0,
 - in other cases, the check digit is the result of subtracting from 11 the rest.

Calculating control digit:

Number without check digit	1	9	8	6	5	1	2	1	
Multiply by	x 8	x 6	x 4	x 2	x 3	x 5	x 9	x 7	
The sum	8 +	54 +	32 +	12 +	15 +	5 +	18 +	7	= 151
The sum 151 is divided by 11. The result is equal to 13 and the rest is 8.									
11 less 8 is equal to 3: check digit is 3									
Number with check digit	1	9	8	6	5	1	2	1	3

- Field „**Country of shipment**” contained the country of shipment marked by letters which are the country code (national prefix). For Poland – PL.

2. Physical construction of the bar Code 39

Parameters	Sizes
Minimal width of a narrow element X (module)	minimum 0,25 – 0,43 mm (recommended 0,33 mm)
Minimal field around the code, free from writings and prints	- from the digital interpretation of the code – 12 mm - other fields – 10X (minimum 2,5 mm to 4,3 mm)
Minimal code height	9 mm (recommended 12,5 mm)
SC print contrast	> 3.5
Minimal required surfaced for the code and field around the code	H min. = 23,5 mm do 28,8 mm (recommended min. size 27,8 mm) L min. = 59 mm do 91 mm (recommended min. size. 82 mm)

Digital interpretation of the bar code should be placed directly under or above the bar code on 12 mm from the field free from writings and prints. The digit height under (above) the bar code for identifying letter consignments cannot be lower than 2mm, and no higher than 5 mm

3. Bar code example for identifying POCZTEX i EMS:



EE 07 919 863 9 PL

Interpretation of data contained in the bar code:

EE 07 919 863 9 PL

EE	- Kind of consignment
07919863	- 8-digit unique number of consignment
9	- Control sign
PL	- Country of shipment (Poland).