01

Modular Validators

AZKOYEN

MEDIOS DE PAGO

Your Partner for Payment Technologies

Modular validators

AC6	X8B	X6

3,5"

5"

Telecom

Z6	C6

X8	P8
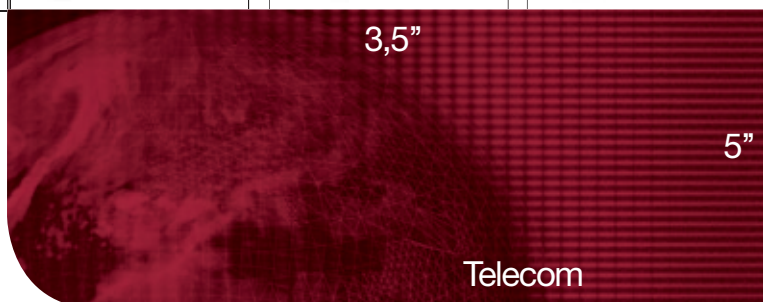
AZKOYEN

M E D I O S   D E   P A G O

Your Partner for Payment Technologies

Introduction

AZKOYEN Medios de Pago is a division of the Multinational **AZKOYEN** Group. Since 1945, we having been working in an increasing number of sectors, spreading to more countries and dealing with a growing number of companies. Our philosophy is based on collaborating with our customers to develop a wide range of creative, secure, technological payment systems designed with the end user in mind.

Our Commitments

1. **To attend your security requirements**

Mechanical and electronic thread detection system: not only does
• It prevent coin retrieval
• It detects fraud and instantly inhibits all acceptances.

DSM ranges:
• To maximise coin acceptance and fraud rejection systems.

DSM validators involve both conventional coin measurement systems and DSM recognition.
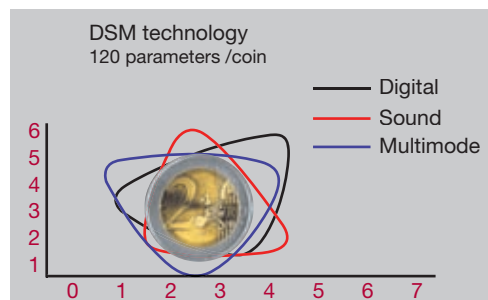
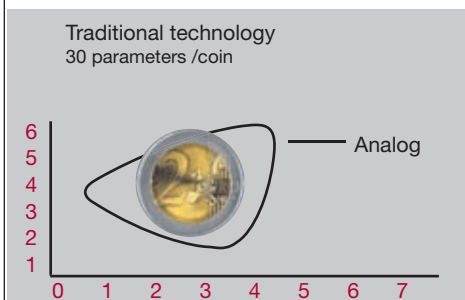**D:** Digital signal processors **(DSP)** which multiply the parameters read on a coin by 10 and digitally process all the signals.

S: Sound measurement of the coin to determine precisely what materials it is made of.

M: Use of **Multimode** sensors which calculate the course of the coin in the validator and adapt their sensorization to the coin detected section.

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Traditional technology
30 parameters /coin

Analog

DSM technology
120 parameters /coin

— Digital
— Sound
— Multimode

2. To make machine design easier

- **Specific models for each country and application.**
- **Wide range of accessories.**

3. To reduce cost

- **Modular design which simplifies maintenance.**
- **User-friendly Tools and Software.**

Standards

The entire range of AZKOYEN validators
complies with the following standards:

- **CE**
- **Rohs**
- **BACTA standards**

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01

Modular AC6

3.5" front-return validator

BENEFITS AND ADVANTAGES

- ■ Electronic thread detection system
- ■ Mechanical thread detection system.
- ■ Versions available for each country
- ■ Easy to maintain
- ■ Versatilidad to minimise space on the front of the machine.

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MEDIOS DE PAGO

Modular validators AC6   3,5"

Coin Management

AC6
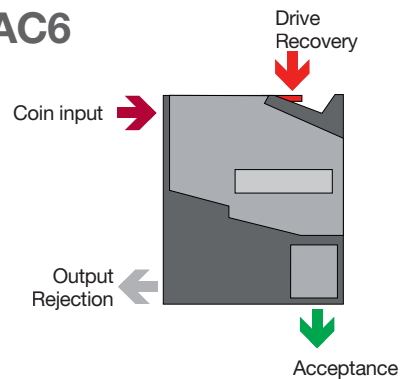
Drive
Recovery

Coin input

Output
Rejection

Acceptance

Mechanical Characteristics

Coin Acceptance	32
Token Acceptance	2
Coin inhibition	√
Coin diameters	16.25 mm - 32.5 mm
Coin thickness	1.2 mm - 3.3 mm
Dimensions	89 x 46 x102 mm
Degrees of inclination	3° on all axes

Electrical Characteristics   AC6

Voltage	Nominal	12-24	V
	Minimum	10	Vdc
	Maximum	27	Vdc
Current	Standard	50	mA
	Maximum	500	mA

Working Conditions

Working Temperature	+5ºC to +55ºC
Relative Humidity (without condensation)	95 %
Storage Temperature	-25ºC to +70ºC

Accessories

Midi and Mini shield for AC6
(see accessories page)

Reprogramming tools

Protocols	Parallel / Totaliser / Timer	ccTalk	
Modular AC6 Validator*	●	●	

* Any of the protocols indicated can be used

Funnel

Midi for AC6

Mini for AC6

Measurements

AC6 validators

102 mm

89 mm   46 mm

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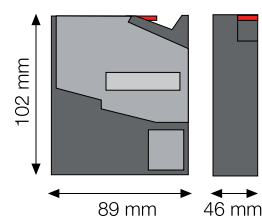
Modular X8B

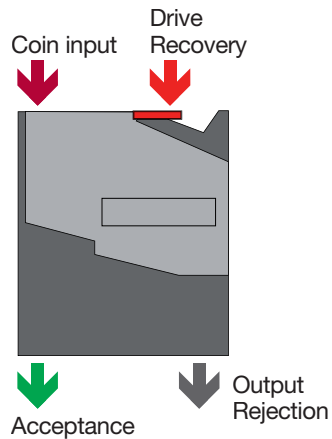**3.5" battery-powered validator**

NEW

BENEFITS AND ADVANTAGES

- Electronic thread detection system
- Mechanical thread detection system.
- Versions available for each country
- Easy to maintain
- Ultra-low consumption

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Modular validators **X8B**   3,5"

Coin Management

X8B

Coin input | Drive Recovery

Acceptance | Output Rejection

Mechanical Characteristics

Coin Acceptance	32
Token Acceptance	2 (programmable in field)
Coin inhibition	√
Coin diameters	16.25 mm - 32.5 mm
Coin thickness	1.2 mm - 3.3 mm
Dimensions	89 x 46 x102 mm
Degrees of inclination	± 3° on all axes

Electrical Characteristics — X8B

Voltage	Nominal	12	V
	Minimum	10	Vdc
	Maximum	15	Vdc
Current	Standard	45	mA
	Maximum	280	mA
	On stand-by	<1	µA

Working Conditions

Working Temperature	+5°C to +55°C
Relative Humidity (without condensation)	95 %
Storage Temperature	-25°C to +70°C

Accessories

Up to three sizes of funnel
(see accessories page)
Reprogramming tools

Protocols — Parallel

Modular X8B Validator	●

Funnels   Measurements

Large
Ref: 41149571

Medium
Ref: 41145041

Small
Ref: 41160471

X8B Validator

23,5 mm

15,5 mm

10 mm

102 mm

89 mm | 48 mm

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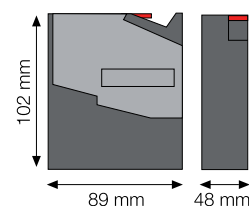
Modular X6

3.5" validator for high security applications

DSM technology

Modular X6

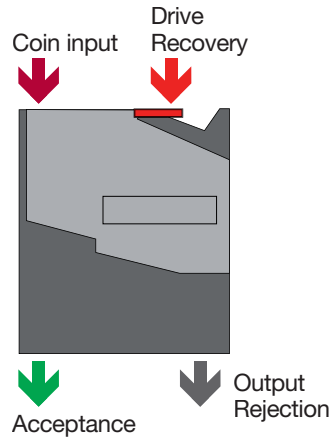### BENEFITS AND ADVANTAGES

- ■ Electronic thread detection system
- ■ Mechanical thread detection system
- ■ DSM technology
- ■ Versions available for each country
- ■ Easy to maintain

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MEDIOS DE PAGO

Modular validators **X6**   3,5"

Coin Management

X6

Coin input   Drive Recovery

Acceptance   Output Rejection

Mechanical Characteristics

Coin Acceptance	32
Token Acceptance	2
Coin inhibition	√
Coin diameters	16.25 mm - 32.5 mm
Coin thickness	1.2 mm - 3.3 mm
Dimensions	89 x 46 x102 mm
Degrees of inclination	± 3º on all axes

Electrical Characteristics   X6

Voltage	Nominal	12	V
	Minimum	10	Vdc
	Maximum	15	Vdc
Current	Standard	100	mA
	Maximum	400	mA

Working Conditions

Working Temperature	+5ºC* to +55ºC
Relative Humidity (without condensation)	95 %
Storage Temperature	-25ºC to +70ºC

* option of up to -20ºC

Accessories

Up to three sizes of funnel (see accessories page)

Two sorters: 3- and 5-way (see sorter catalogue)

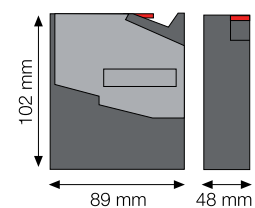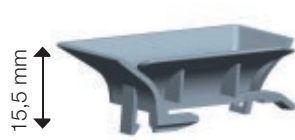Reprogramming tools

Protocols

	Parallel	ccTalk
Modular X6 Validator	●	●

Funnels   Measurements

Large
Ref: 41149571

Medium
Ref: 41145041

Small
Ref: 41160471

X6 Validator

23,5 mm

15,5 mm

10 mm

102 mm

89 mm   48 mm

01

Modular Z6

5" validator for high security applications

DSM technology

BENEFITS AND ADVANTAGES

- ■ Electronic thread detection system
- ■ Mechanical thread detection system
- ■ DSM technology
- ■ 4 models with different inputs and outputs
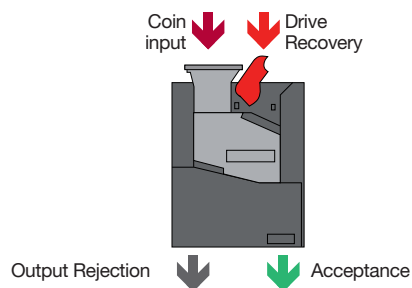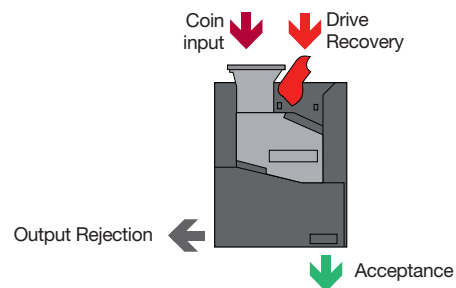- ■ Versions available for each country
- ■ Easy to maintain

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Modular validators **Z6**   5"

Coin Management

Conf. S-I

Coin input | Drive Recovery
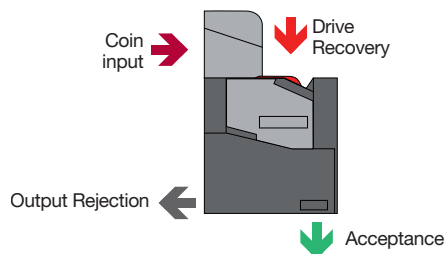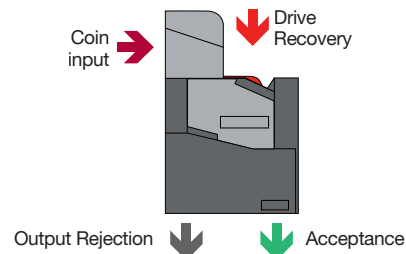
Output Rejection | Acceptance

Conf. S-F

Coin input | Drive Recovery

Output Rejection

Acceptance

Conf. F-F

Coin input | Drive Recovery

Output Rejection

Acceptance

Conf. F-I

Coin input | Drive Recovery

Output Rejection | Acceptance

Mechanical Characteristics

Coin Acceptance	32
Token Acceptance	2
Coin inhibition	√
Coin diameters	16.25 mm - 32.5 mm
Coin thickness	1.2 mm - 3.3 mm
Dimensions	127 x 50 x 95 mm
with clasificador Z	127 x 50 x 185 mm
Degrees of inclination	± 3° on all axes

Electrical Characteristics — Z6

Voltage	Nominal	12-24 V
	Minimum	10 Vdc
	Maximum	27 Vdc
Current	Standard	100 mA
	Maximum	500 mA

Working Conditions

Working Temperature	+5ºC to +55ºC
Relative Humidity (without condensation)	95 %
Storage Temperature	-25ºC to +70ºC

Accessories

Integrated funnel

4-way sorter

(see sorter catalogue)

Reprogramming tools

Protocols

	Parallel	ccTalk	PS	MDB
Modular Z6 Validator*	●	●		

Funnel

Integrated funnel

Measurement

Z6 validator

185 mm

127 mm   50 mm

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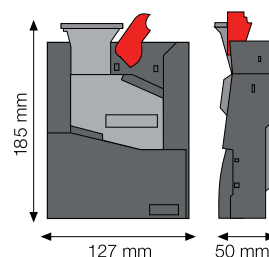
Modular C6

5" validator for high security applications

DSM technology

BENEFITS AND ADVANTAGES

- ■ Electronic thread detection system
- ■ Mechanical thread detection system
- ■ High-speed coin sorting
- ■ All the coin channels are compatible with all € coins
- ■ DSM technology
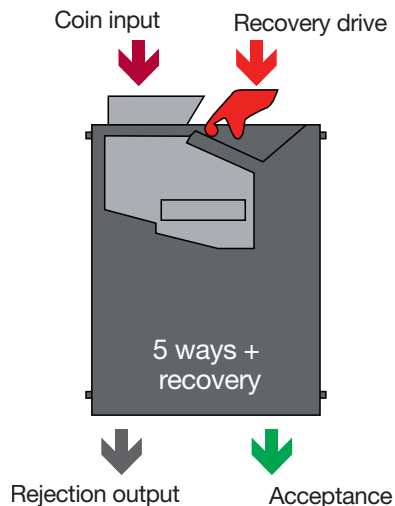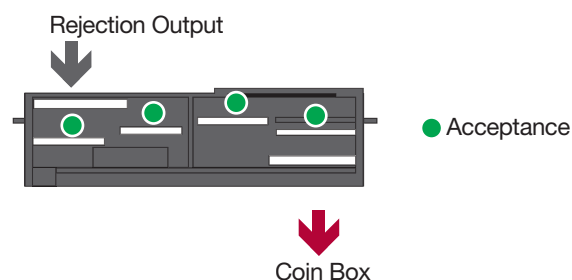- ■ Versions available for each country
- ■ Easy to maintain

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M E D I O S   D E   P A G O

Modular validators C6   5"

Coin Management

C6

Coin input   Recovery drive

5 ways + recovery

Rejection output   Acceptance

Lower View

Rejection Output

● Acceptance

Coin Box

Mechanical Characteristics

Coin Acceptance	32
Token Acceptance	2
Coin inhibition	√
Coin diameters	16.25 mm - 32.5 mm
Coin thickness	1.2 mm - 3.3 mm
Dimensions	127 x 60 x 180 mm
Degrees of inclination	± 3° on all axes

Electrical Characteristics   C6

Voltage	Nominal	12-24	V
	Minimum	10,8	Vdc
	Maximum	26,4	Vdc
Current	Standard	100	mA
	Maximum	150	mA

Working Conditions

Working Temperature	+5°C to +55°C
Relative Humidity (without condensation)	95 %
Storage Temperature	-25°C to +70°C

Accessories

Integrated funnel
Reprogramming tools
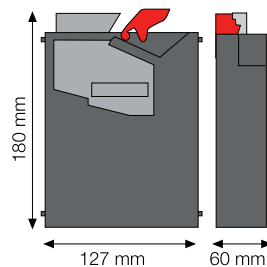
Protocols   ccTalk

Modular C6 Validator	●

Funnel

Integrated funnel

Measurements

C6 Validator

180 mm

127 mm   60 mm

01

Modular X8 & P8

Validator with different formats for telecom applications

BENEFITS AND ADVANTAGES

- ■ Electronic thread detection system
- ■ Mechanical thread detection system
- ■ Format adapted to your telephone
- ■ Ultra-low consumption
- ■ Wide temperature range

- ■ Variety of protocols available
- ■ Customization
- ■ Versions available for each country
- ■ Easy to maintain

AZKOYEN

M E D I O S   D E   P A G O

Modular validators X8 & P8

Coin Management

X8
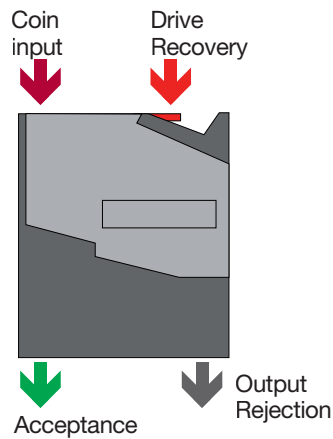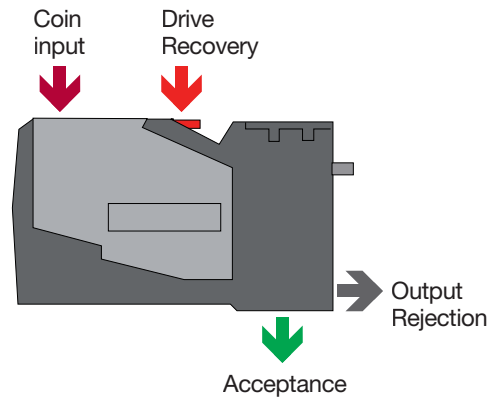
Coin input · Drive Recovery · Acceptance · Output Rejection

P8

Coin input · Drive Recovery · Acceptance · Output Rejection

Mechanical Characteristics	
Coin Acceptance	32
Token Acceptance	2
Coin inhibition	√
Coin diameters	16.25 mm - 32.5 mm
Coin thickness	1.2 mm - 3.3 mm
Dimensions (X8)	89 x 46 x 102 mm
Dimensions (P8)	124 x 48 x 71,5 mm
Degrees of inclination	± 3° on all axes

Electrical Characteristics		X8		P8	
Voltage	Minimum	5	Vcd	6	Vcd
	Maximum	10	Vdc	10	Vcd
Current	Standard	<75	mA	<75	mA
	Stand by	<300	µ A	<300	µ A
	Maximum	<30	µ A	<30	µ A

Working Conditions	
Working Temperature	-25ºC a +60ºC
Relative Humidity (without condensation)	95 %
Storage Temperature	-25ºC a +70ºC

Accessories
Up to three sizes of funnel for X8
Additional XL funnel for P8
Reprogramming tools

Protocols	Parallel	PS
Modular X8 Validator	●	●
Modular P8 Validator	-	●

Funnels

23,5 mm

15,5 mm

10 mm

XXL Funnel for P8
Ref: 41149571

30 mm

Measurements

X8 validator

102 mm · 89 mm · 48 mm

P8 validator

71,5 mm · 124 mm · 49 mm

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Mini Shield

118,36 mm

63 mm
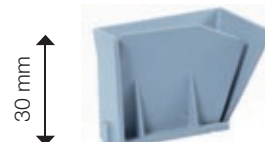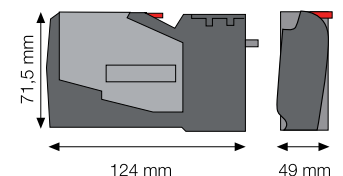
	AC6	X8B	X6	Z6	C6	X8	P8
	●	-	-	-	-	-	-

Top Input
Easy integration into machine
Simple clip-on fitting to validator
Mechanical Recovery button
Ref: 41141791

Midi Shield

156 mm

63 mm
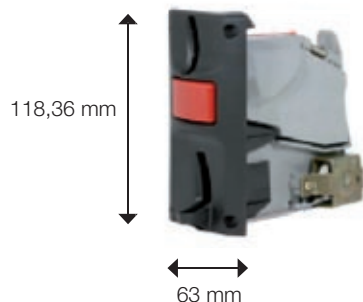
	AC6	X8B	X6	Z6	C6	X8	P8
	●	-	-	-	-	-	-

Front Input
Easy integration onto machine
Simple clip-on fitting to validator
Mechanical Recovery button
Ref: 41141781
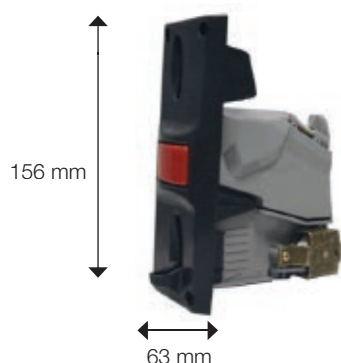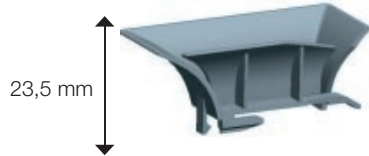
Funnels

	AC6	X8B	X6	Z6	C6	X8	P8
S	-	●	●	Included	Included	●	-
M	-	●	●	Included	Included	●	-
L	-	●	●	Included	Included	●	*

Different sizes of funnel for all your machine configurations.

* Special XL size

30 mm
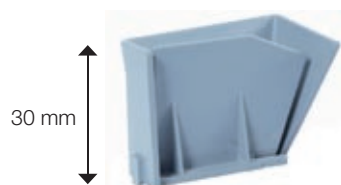
Fnnel XXL - for P8
Ref: 41149571

23,5 mm

L - Large
Ref: 41149571

15,5 mm

M - Medium
Ref: 41145041

10 mm

S - Small
Ref: 41160471

AZKOYEN
MEDIOS DE PAGO

Range of tools adapted to the requirements of each customer:

- Intuitive, powerful, end operator-friendly software
- Possibility of reprogramming without tools
- Minimum-sized, sturdy tools
- Machine simulators for expert designers

HeUs Software

User software for the Azkoyen validator range

http://sat.azkoyen.com

Working test
Reconfiguration of pin outs and validator cloning
Reprogramming of firmware and software
Coin inhibition / enablement

TL20

Handheld programmer.
Permits use of HeUs software without PC

Direct connection kit

PC connection cabling.
Permits use of HeUs straight from a PC

Kit IA 21	AC6	X8B	X6	Z6	C6	X8	P8
Validator power source	-	●	●	●	●	-	●

* Transformer not included

CcTalk manager	AC6$_{ccTalk}$	X8B	X6$_{ccTalk}$	Z6$_{ccTalk}$	C6$_{ccTalk}$	X8	P8
Simulates interaction between AZKOYEN	●	-	●	●	●	-	-
means of payment and ccTalk machine	●	-	●	●	●	-	-
	●	-	●	●	●	-	-

ccTalk-USB converter

Permits application of ccTalk software

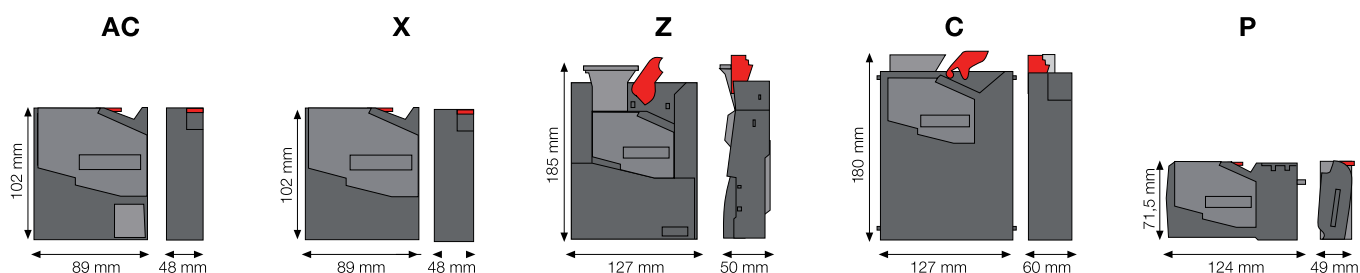## Telecom validator programmer / simulator   IS21

Simulates between AZKOYEN means of payment and a telephone

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Applications		AC6	X8B	X6	Z6	C6	X8	P8
Amusement		-	-	●	●	●	-	-
Gaming		●	●	●	-	-	-	-
Telecoms		-	-	-	-	-	●	●
Transport & Parking		●	●	●	●	●	-	-
Retail & Banking		-	-	●	●	●	-	-
Kiosk		●	●	●	●	●	-	-

Protocols	AC6	X8B	X6	Z6	C6	X8	P8
Parallel	●	●	●	●	-	●	●
ccTalk	●	-	●	●	●	-	-
PS	-	-	-	-	-	●	●

Measurements

AC	X	Z	C	P
102 mm / 89 mm / 48 mm	102 mm / 89 mm / 48 mm	185 mm / 127 mm / 50 mm	180 mm / 127 mm / 60 mm	71,5 mm / 124 mm / 49 mm

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MEDIOS DE PAGO

Distributor for: