



THE WORLD OF PRODUCTION



BUTTONS AND FIXTURES

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ELECTRONIC GROUP OF PRODUCTS

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OUR CORPORATE VALUES

Professional Approach
 Quality and promptitude are our strong aspects. We work customer and solution oriented. Aries Complete Lift Systems guarantee safety, quality, functionality and easy installation.

Ethical Attitude
 We place regard for man, the environment and the law at the forefront within every geographical boundary we do business in.

Sincerity
 We pride ourselves on providing warm and friendly service to our customers. We listen well to our customers and develop the most suitable product for their needs with the aim of maximizing their satisfaction.

Leadership
 With our specialized team of experts, we base our processes on the customers' demands and create opportunities for development and innovation.

Winning Together
 "If the waters rise, all ships stay afloat" Ametal believes that the outputs of its internal industrial design and R&D processes should benefit the sector and the country as well as the company.

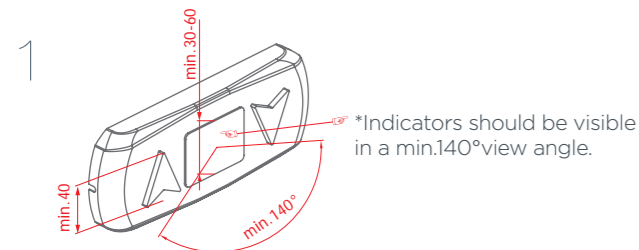


EN 81-70

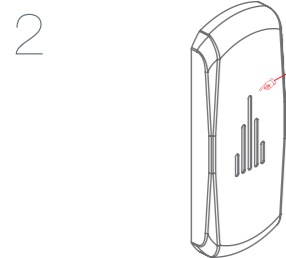
The basic philosophy of standards; everything is for people. When a standard is applied all over the world, the difference between applications of different countries subsidies and operating lifts becomes easier. EN81-70 of the European Lift Standard describes the accessibility to lifts for persons including person with disability.



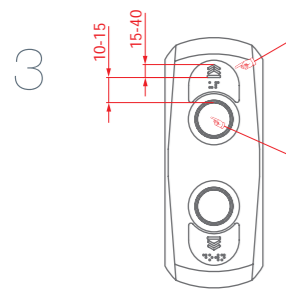
EN 81-70 in indicators



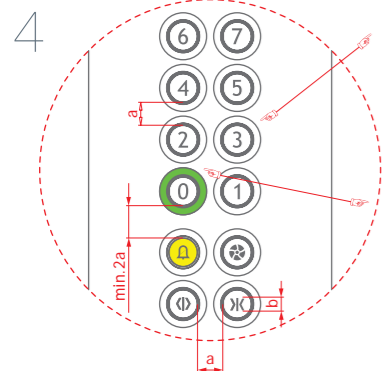
*Indicators should be visible in a min.140° view angle.



* Audible signal (Gong) should be between 35 dB(A) and 65 dB(A).
* One signal upwards and two signals downwards.

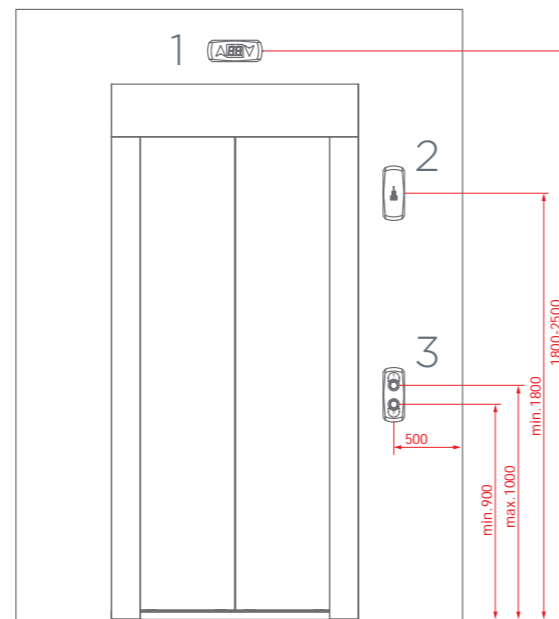


* Protrusion of signs should be 0,8mm and in tactile signs
* Buttons should be easily noticeable (by color contrast) and seperable by touch (tactile signs) from the adjacent
* Push pressure between; 2,5N-5N
* The movable part of the buttons should be min 490 mm².

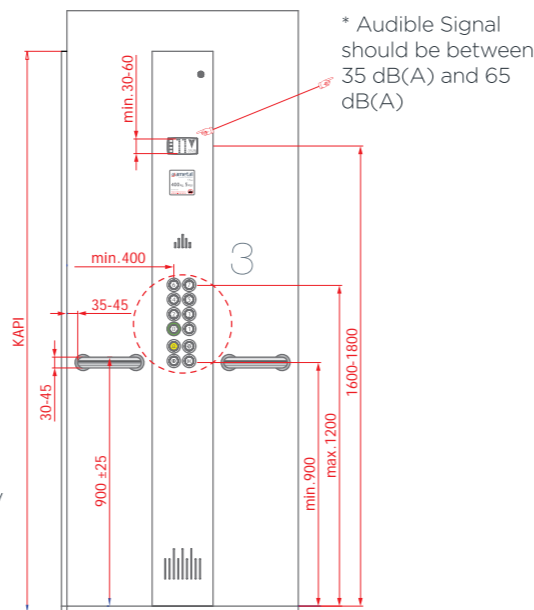


* Numbers can be used in place of stop names like 'B', 'GF'.
* Exit Floor button should be 4-6 mm higher than other buttons and preferably in green color.
a: 10 mm (min.)
b: 15-40 mm

EN 81-70 in Landing Fixtures



EN 81-70 in Car Fixtures



* Audible Signal should be between 35 dB(A) and 65 dB(A)

New Organization

Car fixtures are reorganized according to EN 81-70 standards.
4 types of car fixtures are produced according to new standards.

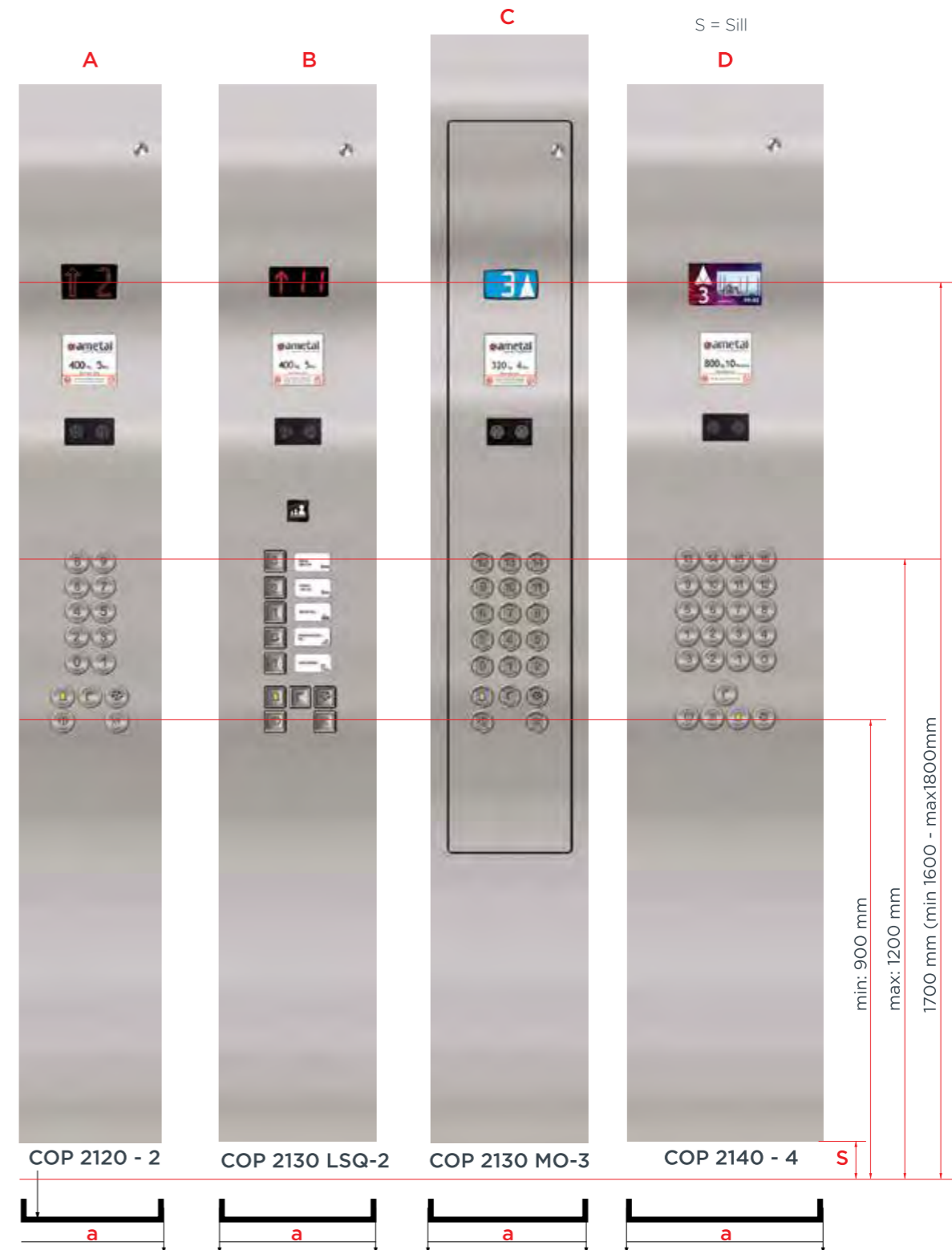


Button Panel Types- a

- A: Two lines arrangement - 225mm
- B: Three lines arrangement - 300 mm
- C: Three lines arrangement - 300 mm
- D: Four lines arrangement - 375 mm

The number of stops vary depending on the selected button model Depth of box changes between 30-60 mm.

S = Sill





PRODUCTION AND AMETAL

Producing customized solutions to needs and expectations is the main philosophy of AMETAL.

The philosophy of Lean Production, dominated in production processes, guarantees the fulfillment of customer expectations at the highest level.

Being a leader and a model company in its sector, Ametal continues to serve its customers by producing Buttons / Fixtures Indicators/Load Weighing Systems and Complete Lift Systems.

OUR PHILOSOPHY IS TO SERVE CUSTOMERS

Producing solutions for special needs and expectations is the job of Ametal.

Customer relations carried out with different language options such as, English, French and German, is one of the strengths of the Marketing and Sales Team of Ametal.

*"The ones without targets
to teach do not enjoy working"*

Emile RAUX



Customized Fixtures

Ametal Fixtures offer special solutions to meet changing needs of customers. Produced according to the standards by experienced, skillful hands, they are fully compatible with the cabin or the wall, where they are installed.

We see it as a part of our job to try distinct colors and textures in our designs while creating new model fixtures.

We love what we do.

"The virtuoso is not a person who tunes his violin to have the beautiful sound, he is a person who achieves the beautiful harmony by tuning his life with his words."

PLATO

SO COOL!

COOL SERIES

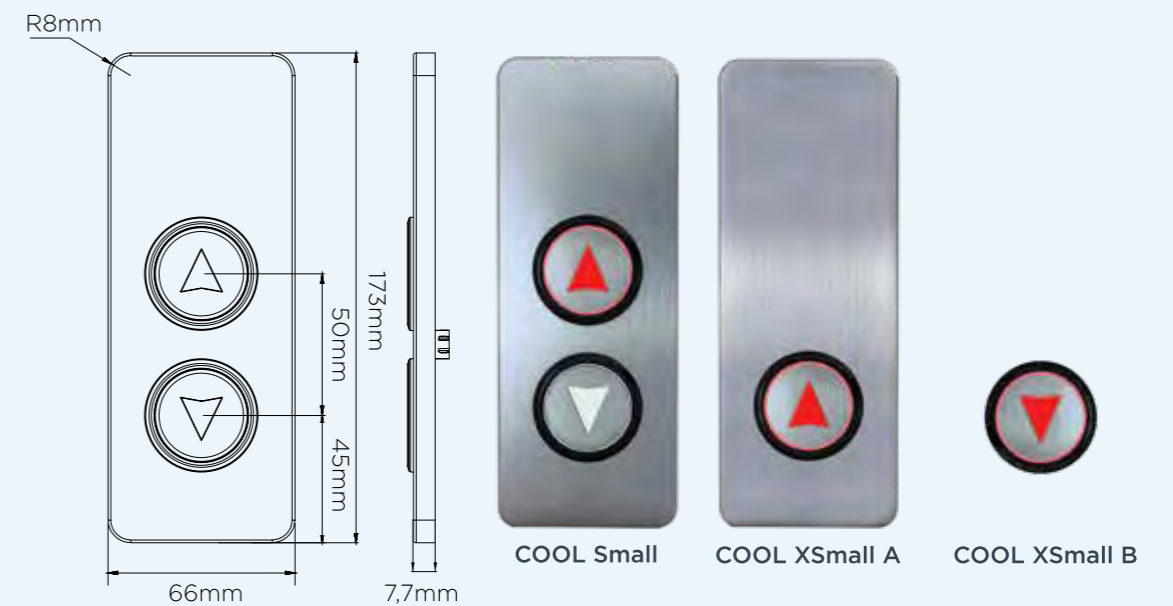
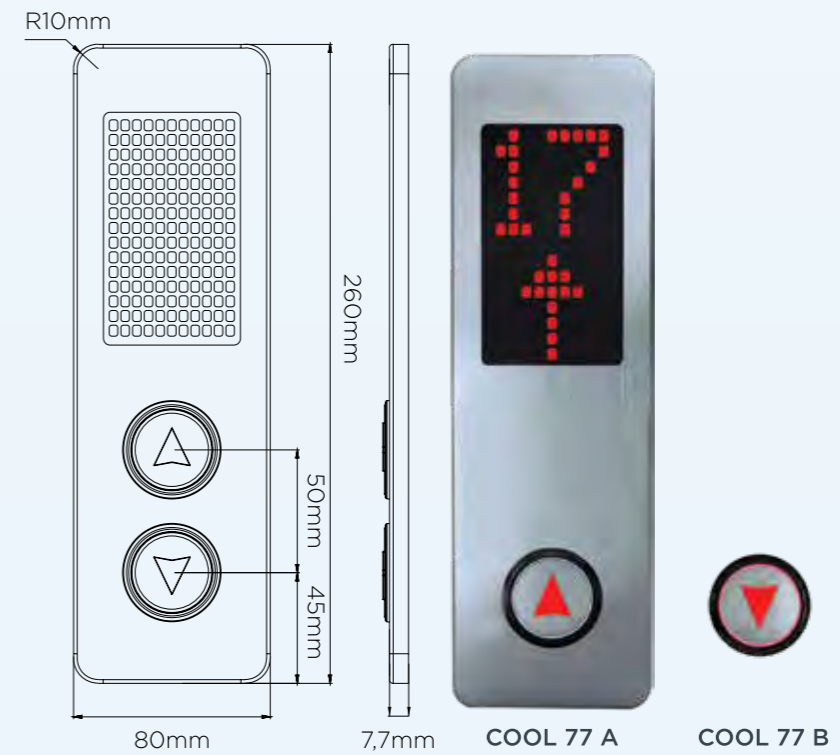
- Surface Mounted 7.7 mm
- New generation, standardized, round type button over integrated card.
 - Dot matrix display with directional arrows.
 - Embossed button cover with leds.
 - Optional Braille Alphabet
- AISI 304 hairline and dot pattern stainless steel body
- Compatibility with Arcode ve Mot CAN-BUS Systems
- Compatibility with MIKEL SX-ULTRA (CAN-BUS) Systems

- Cool P 7S, is a landing fixture with 7 Segment working principles.
- There is a single call buzz on up button and double buzz on down button.
- When COOL P 7S receives energy for the first time, it automatically detects the operational system.



COOL P 7S

COOL 77





P90 SERIES

AGELESS CHOICE

P90 and P150 Series fixtures offer an ideal solution for those who like the traditional lines. Classic model, flush type face plates can be produced in different sizes.

P150 Series



700 AK32 P



700 LM40



700 QD BU



700A AK33 CB

P150 Series
Box Dimensions: 145 x 280mm

P95 Series



909 DAR 38



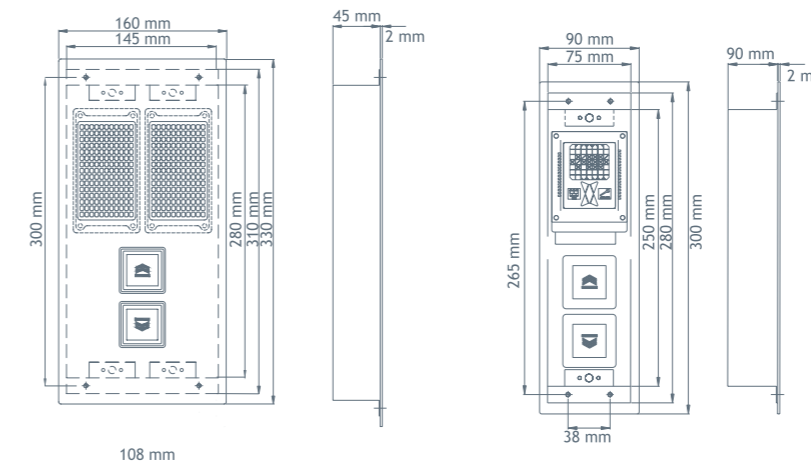
909 ALCD E



909 LM63

P150 Series
Box Dimensions: 250 x 85mm
Note: Dimensions of faceplate or box can be adjusted upon special request.

DIMENSIONS



P90 600 / 600 A
Box Dimensions: 80 x 175mm

P90 500 B / 500 A QD BU / 500 A LM40 / 600 AK32
Box Dimensions: 80 x 230mm

Note: Dimensions of faceplate or box can be adjusted upon special request.



WPY & SMY SERIES

SMY Landing Indicators



909 DAR 45 G



909 DAR 38



909 LM 63



909 ALCD E



909 ALCD E G

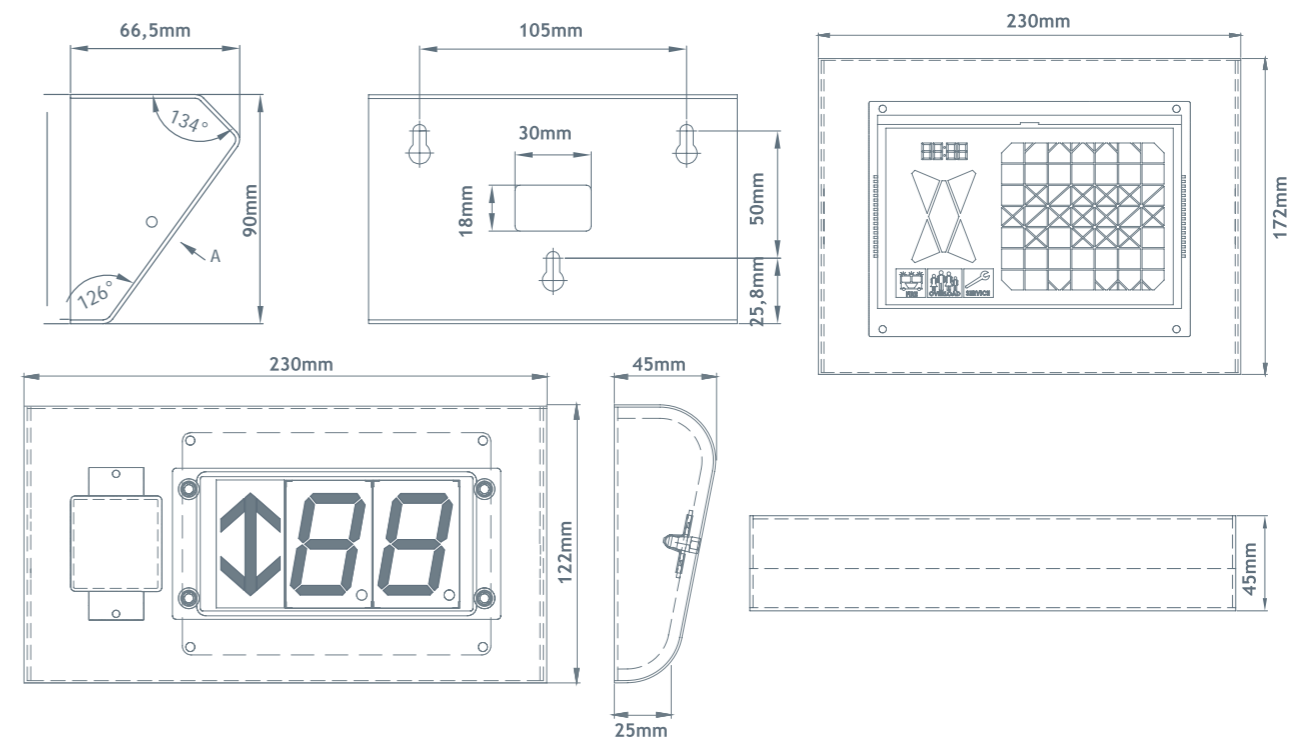


909 A G

It is easy to see the inclined, surface mounted landing indicators from different angles. They offer an ideal solution for crowded floors and exit floors; hotel lobbies are of good examples.



DIMENSIONS



WPY Series have a flexible range for different size requirements. Customized dimensions are possible.

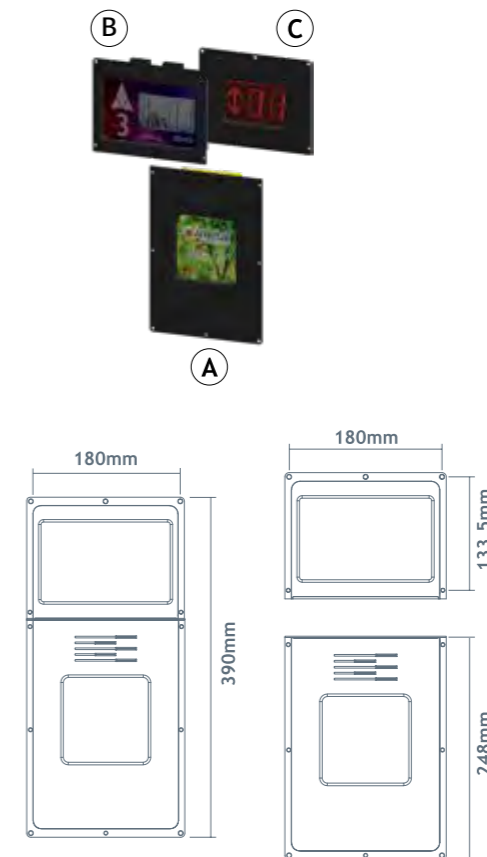
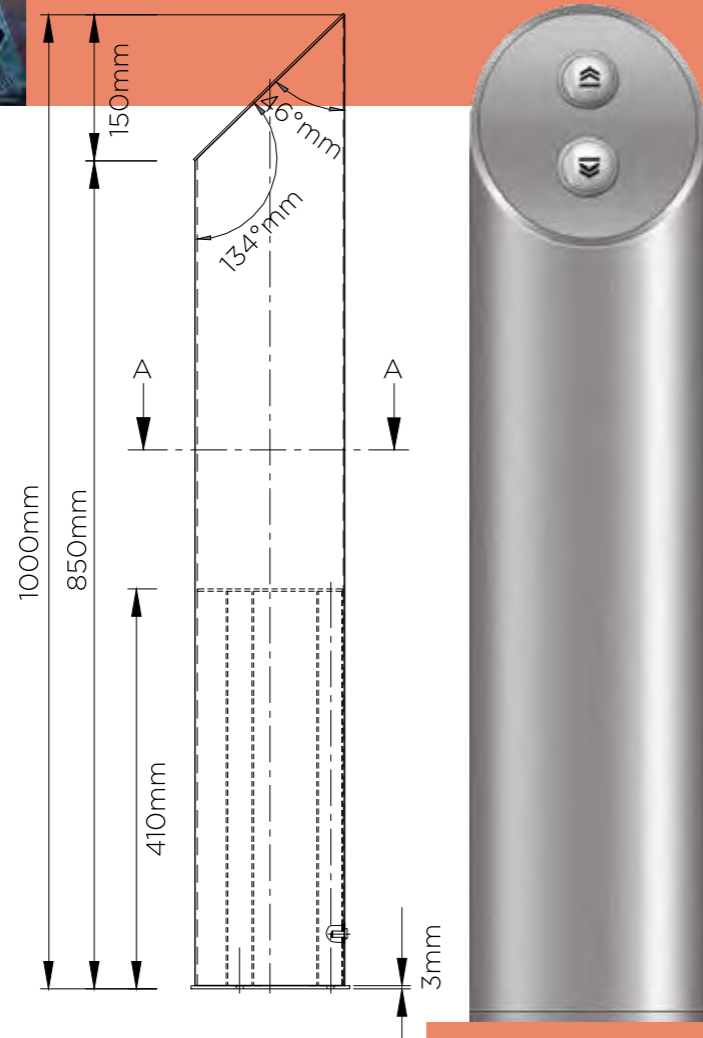


GOZO SERIES

GOZO is a relevant product for projects where there is a lack of space on wall to install a landing fixture.

GOURMET INDICATOR PANEL

GOURMET's body is made of a fire resistant material and it is produced according to lift directives. It offers standardized lift indications such as; car indicator and lift info screen.





IP 600 M SERIES

COP SERIES



THE PLAINEST WAY TO COMMUNICATE

IP 600 M Series products, decorating the walls with simplicity, are unique Ametal Products.



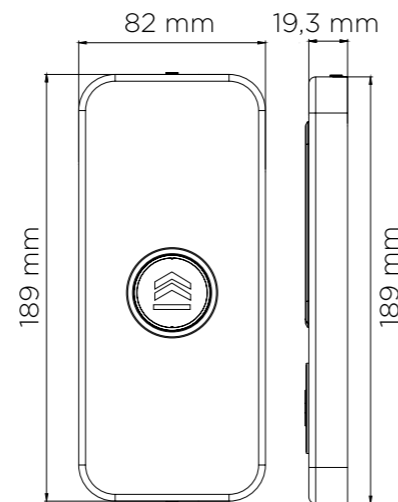
IP600 M 500 A



IP600 M 600



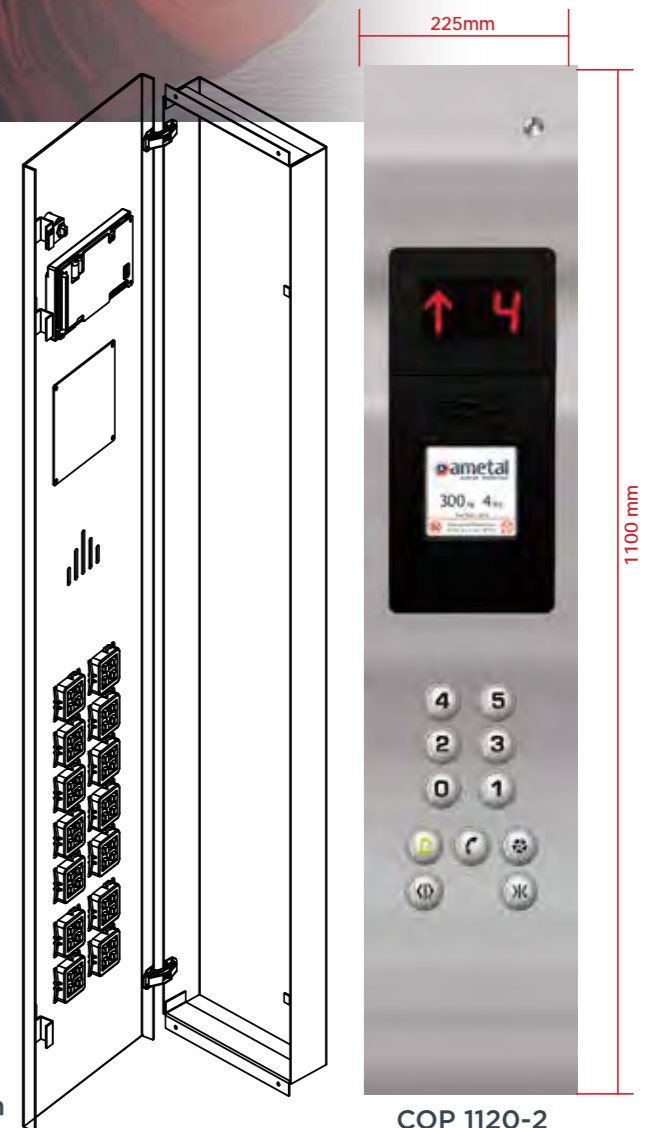
IP600 M 500



THE PERFECT HARMONY OF STYLE AND SIMPLICITY

COP Series is harmonizing style and simplicity on the car fixture. Button's row arrangement can be increased up to six rows according to the number of floors.

Addition to its visual richness, special bending detail and face plate with hinges and lock, offer an ease of use for the lift technicians.

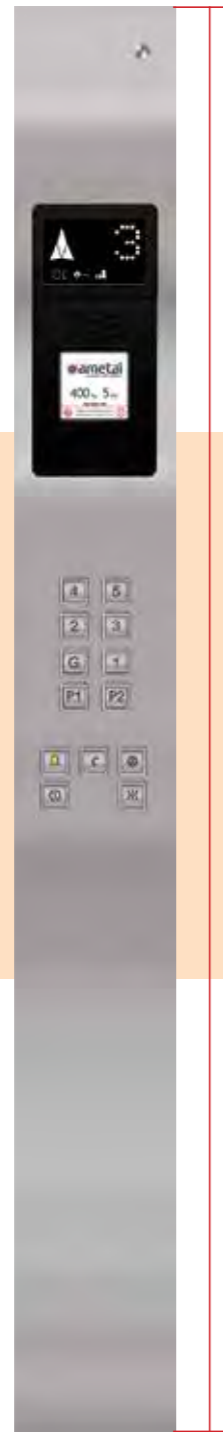
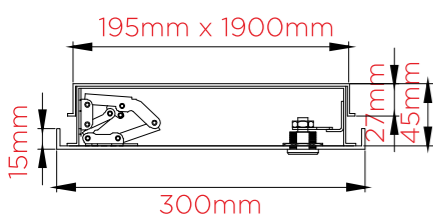


COP 1120-2

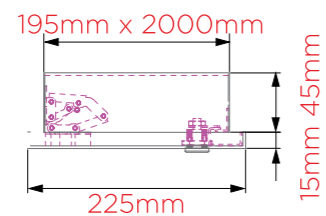
* Box: 195x1050mm



COP 2130 MO - 3

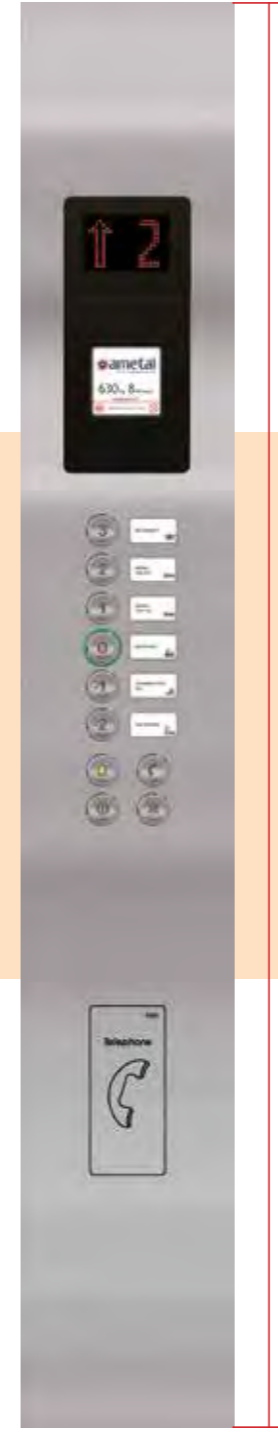


COP 2120 - 2

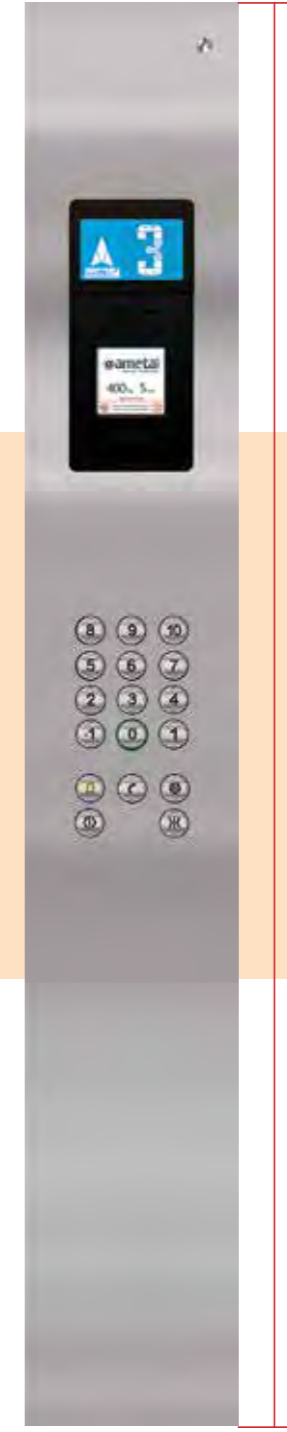
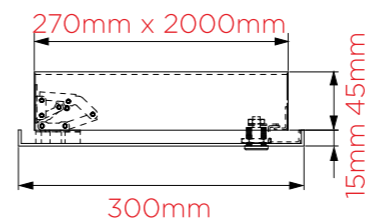


COP Series

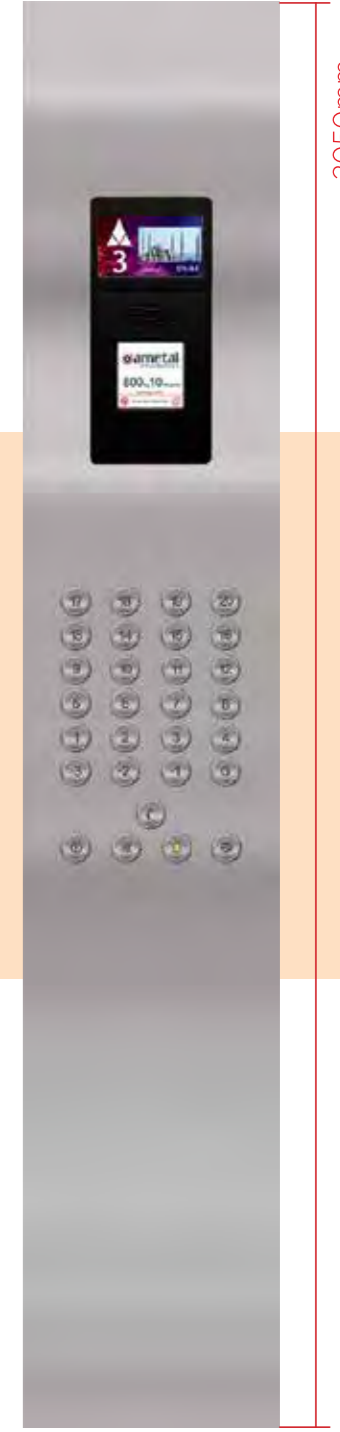
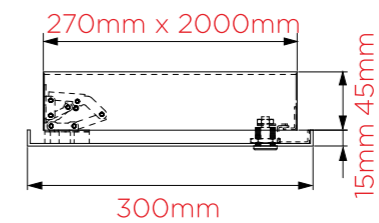
COP 2130 MO - 3 model has a standard, half height cover with hinges and lock. Car fixture with the standardized half height cover is designed to make the job of installers easier.



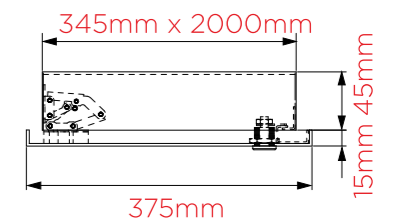
COP 2130 LSQ-2



COP 2130-3

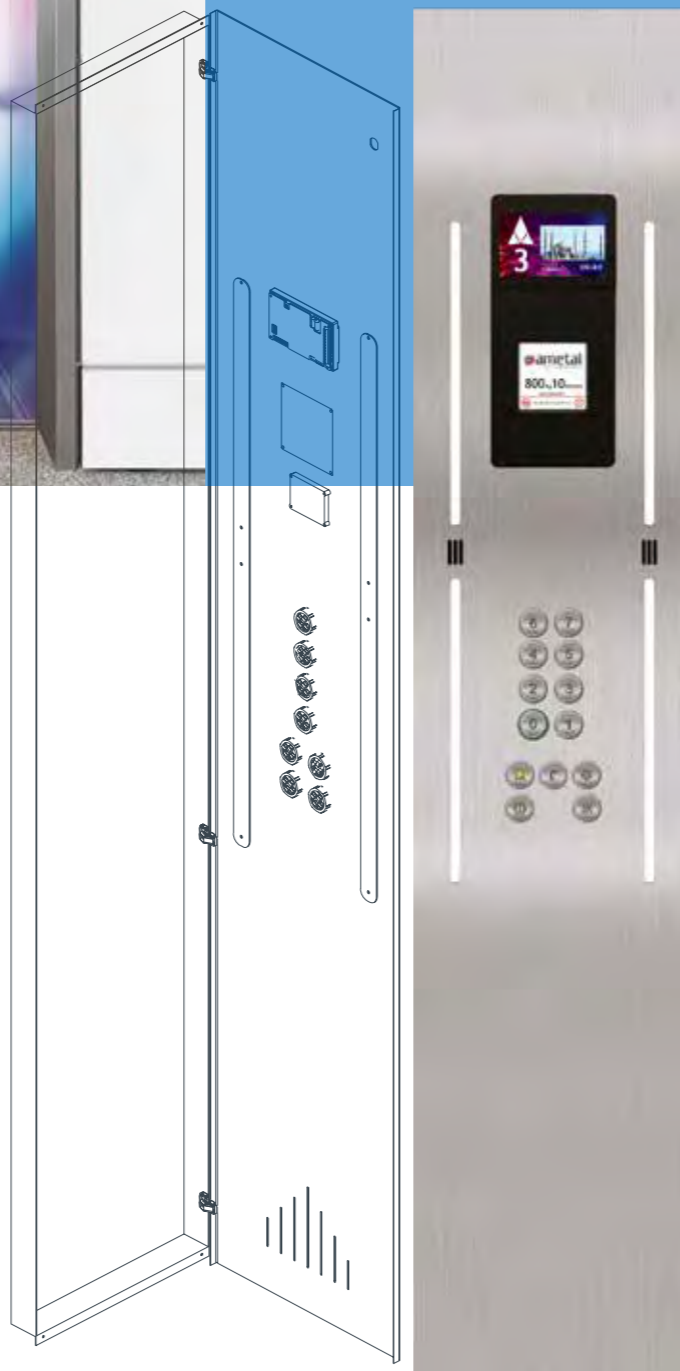


COP 2140-4





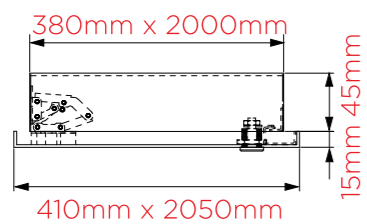
SMCOP & SBCOP with illumination



SBCOP 2120 BAL-2

ILLUMINATED CAR FIXTURES

SM/SBCOP Fixtures with illumination make the lift cabin more interesting. Whether surface-mounted or flush type model is preferred, cabins are always brighter.



PY 1000 SERIES

NOBODY'S LIFE SHOULD BE MORE DIFFICULT

Thanks to PY 1000 Car Fixture Series that are fully designed and produced according to EN81-70 Standards, we make handicapped passengers' lift rides easier.



PY 1000-1



PY 1000-2



PHCP 75H EP



PHCP 75H CR

Products according to EN81-70 Standards are to make handicapped passengers' lift journey more comfortable.



SMCOP SURFACE MOUNTED SERIES

MODERNIZATION

It is very easy to modernize your lift cabins with SMCOP, full or half height surface mounted car fixtures!



VANDAL RESISTANT FIXTURES

IB Inox Buttons, combining ergonomic structure and efficient appearance as well as providing a high degree of resistance to vandalism, are of preferred products. They are certified according to EN81-71 and EN81-72 Standards.

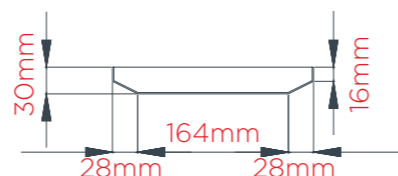
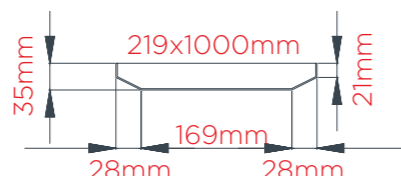
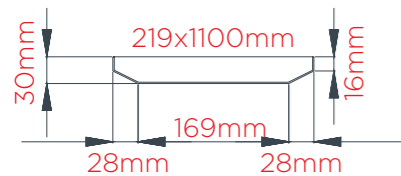


SMCOP 1120 BA FO L - 2



SMCOP 1020 BA FO-2

SMCOP 2120 BA FO-2



SMY 909 LM63 AV



APEC L 1000 AV



SMCOP 1020 BA FO AV



P90 500 A LM40 AV



P90 600 AV

P90 500 A LM40
Box Dimensions: 80 x 230mm

P90 600
Box Dimensions: 80 x 175mm

Note: Dimensions of faceplate or box can be adjusted upon special request.

ECO COP Cabin Fixtures

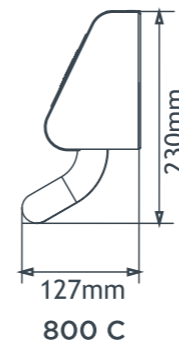
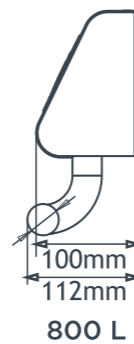
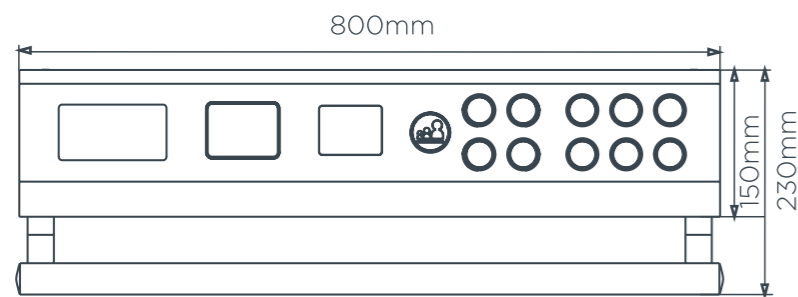
Eco COP horizontal car fixture's stainless steel body and chrome handrail detail, its positioning on the rear cabin wall, reunited with the flotal mirror, make the cab interior unique.



Eco COP 800 C



Eco COP 800 L



SPECIAL FIREFIGHTER LANDING FIXTURES



SMP INT FF



P90 INT FF



SMP 500 A FF



P90 600 FF

P90 INT FF
Box Dimensions: 90 x 375mm

P90 600 FF
Box Dimensions: 90 x 285mm



COP 2140 FF



SMP
CALL - SEND
LANDING FIXTURES



SMP 200-4



SMP 200-3



SMP 200-2



BUTTONSHOP

Buttonshop is created in respect of supplying economic products.

It offers products with optimum prices, ready to be shipped from the warehouse or within the shortest delivery terms.

Dynamic structure Buttonshop products improve with an aim of a visuality that is beyond the expectations.



SADE SERIES

Having a slim and light structure, SADE Series is designed for those who like minimalist lines on the wall.



SMSC SERIES

For those who like classic lines, timeless SMSC Series offers a variety of landing fixtures and indicators. SMSC L is the duplex version of the series.



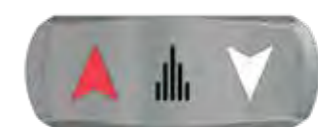
SMSC Landing Indicators



909 ALCD-E



909 LMBUS 63



905 G



907 GA

SMSC Landing Fixtures



500 A AK33 CB



500 B AK32 P



SMSC L 700 AK32 P



SADE 500 A



SADE 600



SADE 500 B



SADE 600



SADE L 700



SADE L 700 A



SADE L 700 B

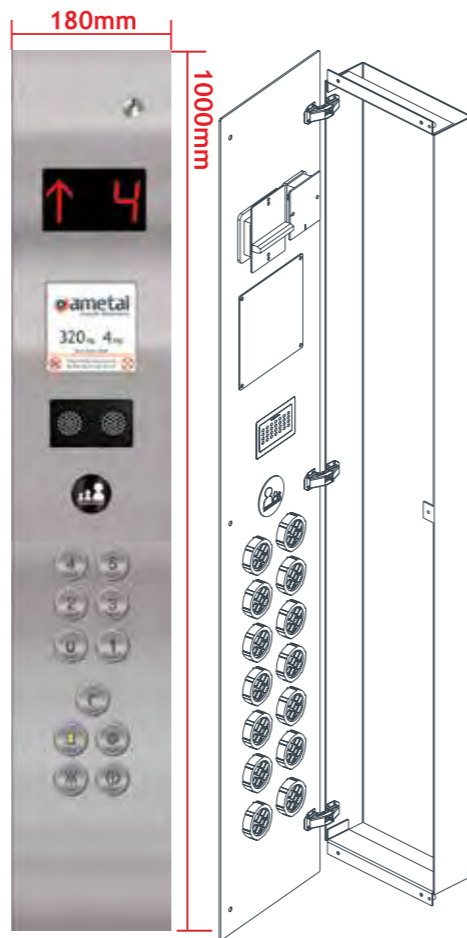


BS & APEC SERIES

Economic Solutions

BS LOP Series carry its classic line to the car fixtures as well. The most popular Car Fixtures of the economic series are designed for those who would like to see quality in their car interiors.

BSCF Car Fixtures' bended faceplate can be produced with a variety of width, such as; 190mm, 225mm, 250 mm.



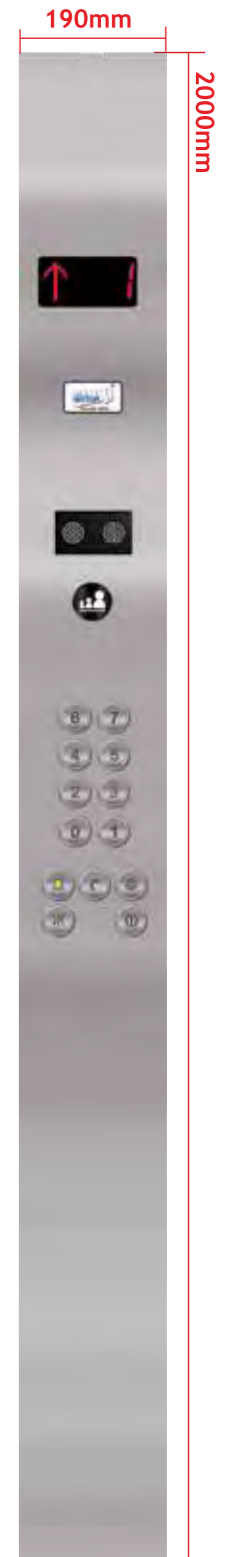
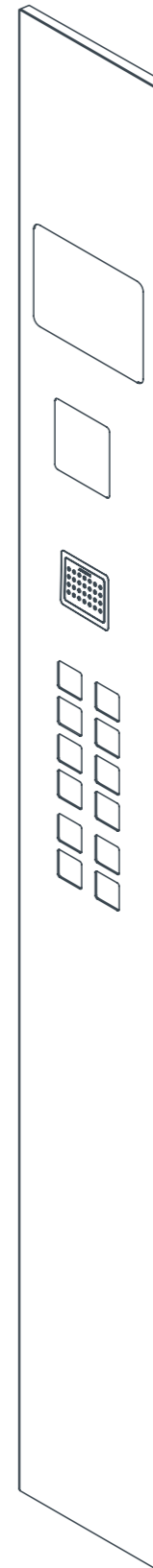
APEC L 1000-2
*Box: 160x925 mm



BS 200-2
*Box: 150x925 mm



SMCF 2120-2



BS 2000-2
*Box: 150x1900 mm



GLOP SERIES



Glass Fixtures

Landing button panel is the first point of contact for lifts and it deserves to be valued.

LUSSO BUTTON

To us, the button is the first point of contact. It is the most striking visual element, the focus of the passenger, and the item in plainest sight.

The buttons on the Lusso Glass Fixtures are fine operating touch buttons, either in square or round forms.

For adding value to your lift designs; take a look at Lussobutton models we created for you and pick the design that fits you and your customer the most.





GIN SERIES

Watch the Luxury!

GIN Series landing indicators are designed to make those moments precious for you.

These indicators with a variety of models such as in rectangular, triangle or circular forms are produced for unique tastes and dreams.



GIN 500 L



GIN 909 LM63

GCOP SERIES The Magic of Glass!

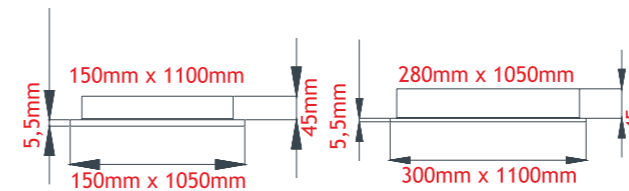
Besides having all the necessary functions, Glass Series of Lusso Button has more to make cabin interiors elegant. The variety of color and pattern options set its details free. It is a classy alternative for cabin interiors where generally steel panels are used.



GCOP 1150 L



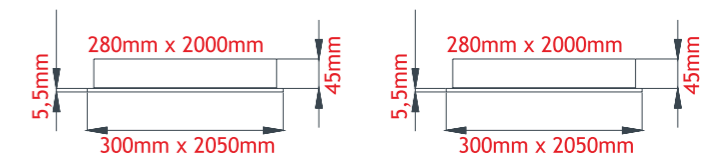
GCOP 1320 L



GCOP 2330 L



GCOP 2320





BUTTONS

At Ametal, we aim to enrich your lives. For us, wealth is design. Wealth is production - the reliable consistency of a product one expects a certain quality from.



IB-INOX

Features

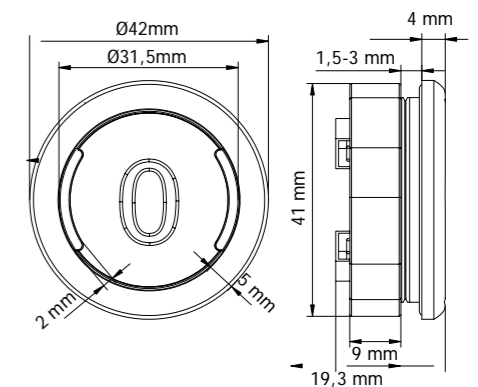
Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 4X
Illumination	4 LED
Life Time	1.000.000 durability and up
Body	Metal (ST 40 ve nickeling)
Assembly	Screwless fixation via metal nuts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, nominal voltage: 2A 30Vdc , Contact resistance: 30M ohm
Led Options	● Red ● Blue ● Green

Button Covers



TBD

Technical Drawing



Wiring Diagram





IB-INOX S



IB-INOX M

Features

Standard	EN 81-20, EN 81-70, EN 81-71, TS ISO 4190-5
IP Protection	IP X3
Illumination	2 LED
Life Time	1.000.000 durability and up
Body	INOX (AISI 316)
Assembly	Rear mounting via metal nuts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, nominal voltage: 2A 30Vdc , Contact resistance: 30M ohm
Led Options	● Red ● Blue ● Green

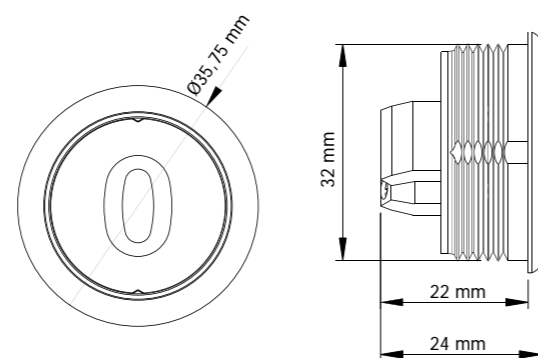
Features

Standard	EN 81-20, EN 81-70, EN 81-71, TS ISO 4190-5
IP Protection	IP X3
Illumination	2 LED
Life Time	1.000.000 durability and up
Body	INOX
Assembly	Rear mounting via metal nuts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Opsiyon : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, Nominal Voltage: 2A 30Vdc , Contact Resistance 30M ohm
Led Options	● Red ● Blue ● Green

Button Covers



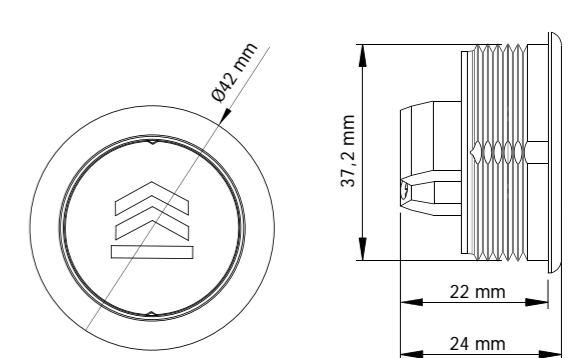
Technical Drawing



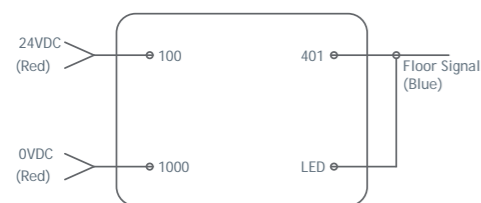
Button Covers



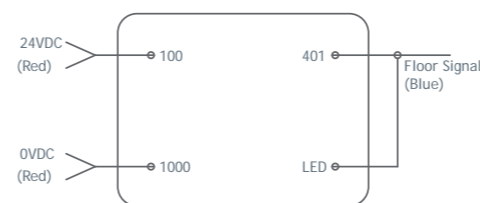
Technical Drawing



Wiring Diagram



Wiring Diagram





B-42 R



B-42 Q

Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	3 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Screwless fixation via plastic clamps
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, Nominal voltage: 2A 30Vdc, Contact Resistance 30M ohm
Led Options	● Red ● Blue ● Green

Features

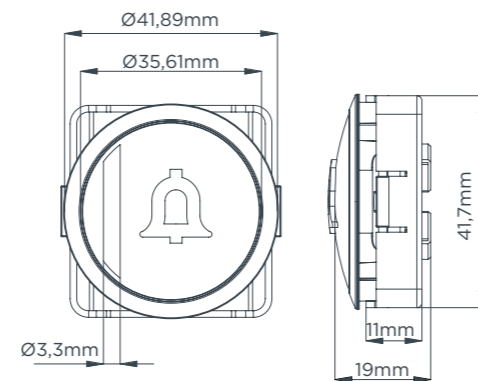
Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	3 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Screwless fixation via plastic clamps
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, Nominal voltage: 2A 30Vdc, Contact Resistance 30M ohm
Led Options	● Red ● Blue ● Green

Button Covers

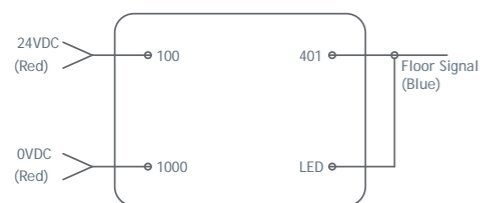


B-42 R

Technical Drawing



Wiring Diagram

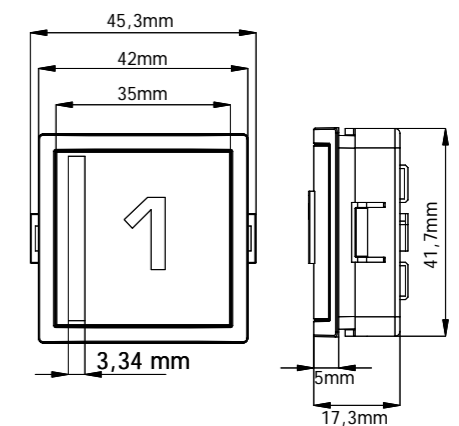


Button Covers

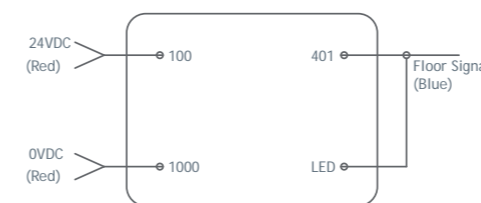


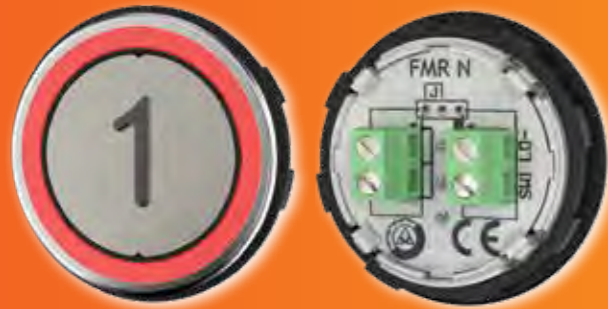
B-42 Q

Technical Drawing



Wiring Diagram





FMR NE



FMQ 3

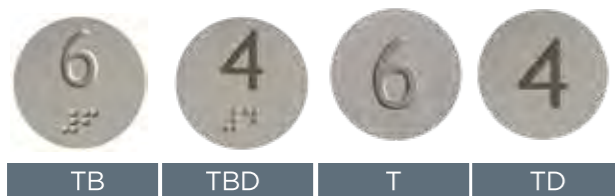
Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	8 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Rear mounting via polycarbonate nuts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, Nominal Voltage: 2A 30Vdc, Contact resistance: 30M ohm
Led Options	● Red ● Blue ● Green

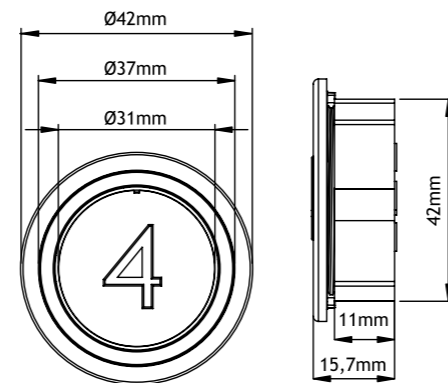
Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	4 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Screwless fixation via PC nuts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro swich, Nominal Voltage: 2A 30Vdc, Contact resistance: 30M ohm
Led Options	● Red ● Blue ● Green

Button Covers



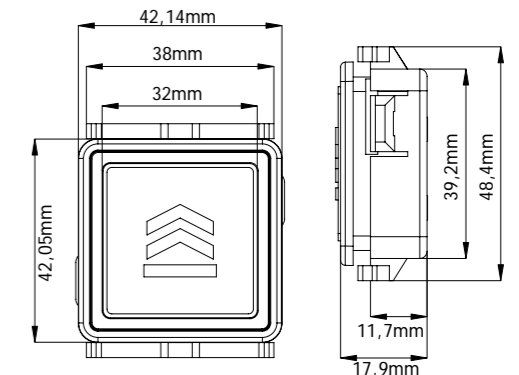
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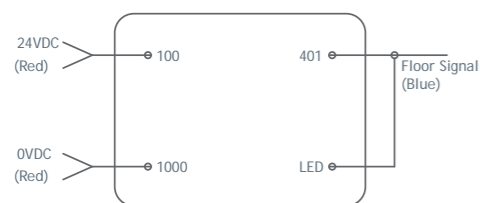
Button Covers



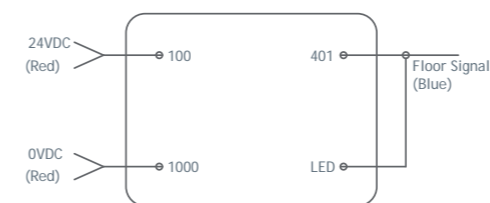
Technical Drawing



Wiring Diagram



Wiring Diagram





HMG 4.3



Nsk 3

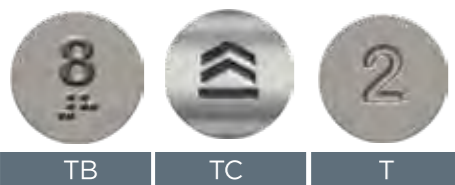
Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	4 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Backside mounting with 4 pieces M3x16 riverts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro switch, Nominal Voltage: 2A 30Vdc, Contact resistance: 30M ohm
Led Options	● Red ● Blue ● Green

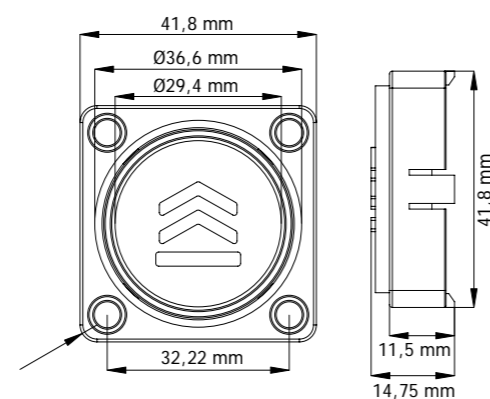
Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	4 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Backside mounting with 4 pieces M3x16 riverts
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	10mA
Swich	Mini micro switch, Nominal Voltage: 2A 30Vdc, Contact resistance: 30M ohm
Led Options	● Red ● Blue ● Green

Button Covers



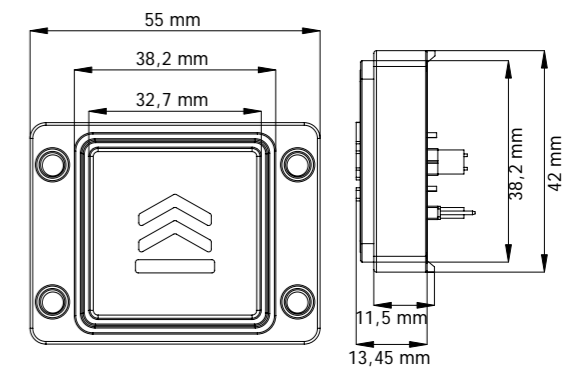
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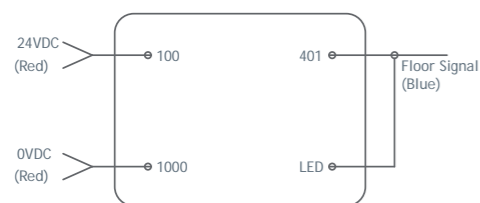
Button Covers



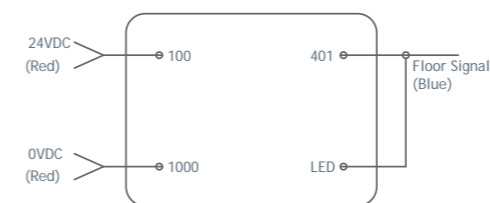
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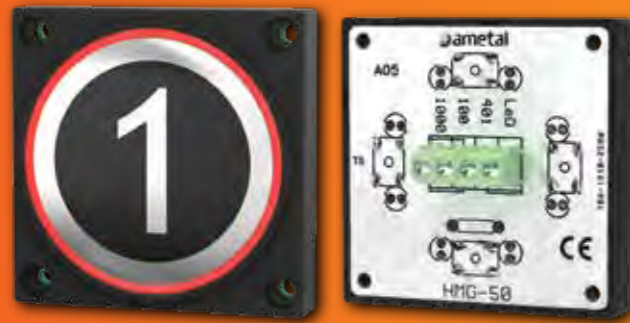


Wiring Diagram



Wiring Diagram





HMG 50



NSK 60

Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	8 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Backside mounting with 4 pieces M3x15 rivets
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	35mA
Swich	Soft Tact Switch, SPST-NO, Nominal voltage: 50mA 12Vdc
Led Options	● Red ● Blue ● Green

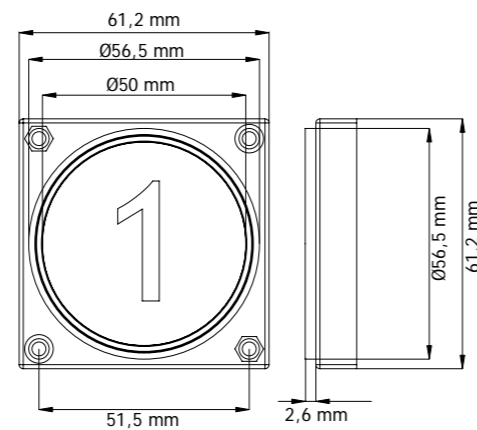
Features

Standard	EN 81-20, EN 81-70, TS ISO 4190-5
IP Protection	IP 40
Illumination	14 LED
Life Time	1.000.000 durability and up
Body	Polycarbon
Assembly	Backside mounting with 4 pieces M3x16 rivets
Operating Temperature	-25°C, 65°C
Voltage	24Vdc (20Vdc - 28Vdc) - Option : U=12Vdc (8Vdc - 16 Vdc)
Consumption	35mA
Swich	Soft Tact Switch, SPST-NO, Nominal Voltage: 50mA 12Vdc
Led Options	● Red ● Blue ● Green

Button Covers



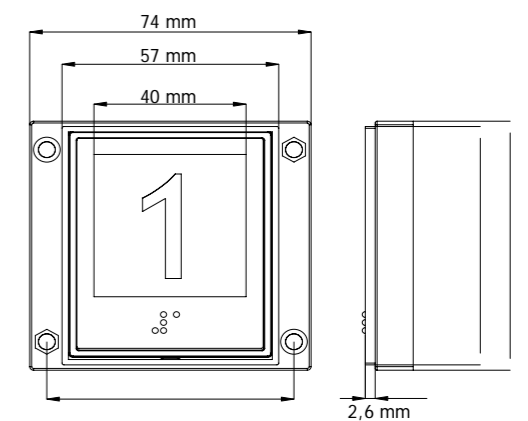
Technical Drawing



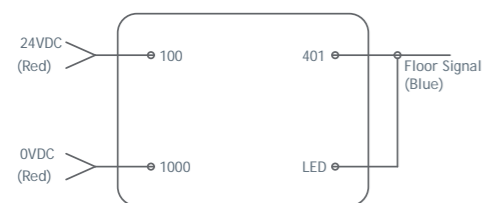
Button Covers



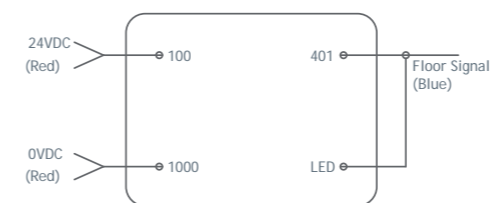
Technical Drawing



Wiring Diagram



Wiring Diagram



BUTTONS	LANDING FIXTURES							
	P 90	P 150	IP600 M	GOZO	SADE	SMSC	SMSC L	GLOP
B-42 R	✓	✓	✓	✓		✓	✓	
B-42 Q	✓	✓	✓	✓		✓	✓	
B-42 RN	✓	✓	✓	✓		✓	✓	
B-42 QN	✓	✓	✓	✓		✓	✓	
FMR NE	✓	✓	✓	✓	✓	✓	✓	
FMQ 3	✓	✓	✓	✓	✓	✓	✓	
HMG 4.3	✓	✓	✓	✓		✓	✓	
NSK 3	✓	✓	✓	✓		✓	✓	
HMG 50				✓		ONLY IN 500 FIXTURES	✓	
NKS 60				✓			✓	
IB INOX	✓	✓	✓	✓		✓	✓	
IB INOX-S	✓	✓	✓	✓		✓	✓	
IB INOX-M	✓	✓	✓	✓		✓	✓	

INDICATORS	LANDING FIXTURES							
	P 90	P 150	IP600 M	GOZO	SADE	SMSC	SMSC L	GLOP
AKLCD 32	✓	✓		✓		✓	✓	✓
AKLCD 33	✓	✓		✓		✓	✓	✓
DAR 45						✓	✓	✓
DAR 38	✓	✓						✓
ALCD E								
LMBUS 40	✓	✓						✓
LMBUS 63				✓				
ALCD 53								
ALCD 80								
ATFT 7.1								
502 BUD	✓	✓		✓	✓	✓	✓	✓
SADE BU			✓		✓			



MENOS₂

It Makes The Lift Speak!

MENOS is an electronic card that announces the floor information of a lift. It is designed and produced by Ametal R&D Team. MENOS offers 3 different language options; Turkish, English and French. Music broadcast is available as a standard option. Settings and selections can be made thru the card itself, very easily. It switches to sleep mode for saving energy when the lift is at park floor.

MINILIFT

BIG Ideas MINI Solutions



Ametal, specializes in Aries Complete Lift Systems, carries the systems to showrooms, offices and schools by its MINILIFT - model lift.

MINILIFT®, is a 3D model lift that was designed and developed by AMETAL.

- 1:4 scale, aesthetic design that was produced adhering to the original lift system
- Stainless steel 3D components
- Fine details processed with hand workmanship and CNC technologies.
- Rich visuality and functionality provided by the moving system.

* Lift System that was modelled : **ARIES 450 MRL***

Applied Standard & Directive	: EN 81-1/A3 & 95/16 EC
Car Speed	: 0,63/2,5 m/s
Capacity	: 225 - 2000 Kg
Roping	: 2:1
Pit (min)	: 900 mm
Headroom	: 3200 mm
Motor	: Gearless
Car Frame	: U Type

ARIES 400 MR*

	: EN 81-1/A3, EN81-20
	: 0,63 m/s, 2,00 m/s
	: 225 - 1000 Kg
	: 2:1
	: 950 mm
	: 3250 mm
	: Gearbox
	: L Type

HD QUALITY
IN YOUR LIFTS



ATFT 7.2



ATFT 7.2

Features

- Display Area : 155 mm x 88 mm (16:9)
- Outlines : 177 mm x 155 mm
- Resoluiton : 800x480
- Standard Features : Color picture display, floor numbers, arrows, overload, fire alarm, maintenance screen, customized information screen with rolling letters, announcement, music system.

- Life time : >30.000 hours
- Operating : Gray, Binary, Arcode CANBUS



ALCD 53 CB

- Dimensions of Cards : 176x130 mm
- Display area : 153 x 96 mm
- Canbus
- Digit Height: 52,20 mm
- Direction Arrow - Fire - Out of Service
- Overload and Buzzer



ALCD 80 P

- Dimensions of Cards : 176x130 mm
- Display Area : 156,5x 96,2 mm
- Gray code, binary code, M1 counter
- Digit Height: 80,mm
- Direction Arrow, Fire, Out of Service
- Overload, Buzzer



ALCD E

- Dimensions of Cards: 136,5x78 mm
- Display Area : 106x55 mm
- Gray code, binary code, Canbus, M1 counter
- Digit Height: 50 mm
- Direction Arrow
- Out of Service, Overload
- Enouncing (Optional)

AKLCD 33 CB

- Dimensions of Cards: 68 x 82 mm
- Display area : 49 x 61 mm
- Digit Height: 33,2 mm
- Out of Service
- Direction Arrow
- Canbus



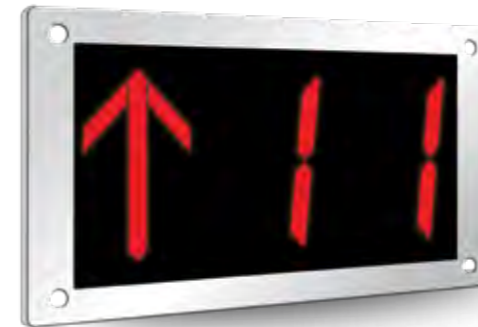
AKLCD 32 P

- Dimensions of Cards: 68 x 82 mm
- Display Area : 51 x 63 mm
- Digit Height: 33,2 mm
- Fire, Out of Service
- Direction Arrow
- Gray code, binary code, M1 counter



QD BU

- Dimensions of Cards: 66,3 x 116,7mm
- Display Area: 53,6 x 87,1 mm
- 7 segment
- Digit Height: 30mm
- Direction Arrow



DAR 45

- Dimensions of Cards: 136 x 98 mm
- Display area: 106 x 56 mm
- 45 mm Single Digit
- 7 Segment



LMBUS 40 (LM40)

- Dimensions of Cards :63,3 x 118,6 mm
- Display area: 46,3 x 88,5mm
- Gray Code binary Code, canbus
- Rolling Letters



DAR 38

- Dimensions of Cards : 61.5 x 81.5 mm
- Display area : 51.2 x 44.2 mm
- 30 mm single/double digit, - signals
- 7 Segment

AD

- Dimensions of Cards : 51,5 x 58,5
- Display area: 36,7 x 55
- 40 mm Direction Arrow



LMBUS 63 (LM63)

- Dimensions of Cards : 136 x 98 mm
- Display area : 84 x 63 mm
- Gray code, binary code, canbus, M1 Counter
- Direction Arrow , Fire, Out of Service, Overload





**DON'T FEEL
DESPERATE
ON OVERLOAD**

LWS 3F Electronic Load Weighing Systems

The most two important things for lifts are correct measurement and feedback.

LWS 3F Load Weighing devices are offering the best options for both features. LWS 3F Systems measure weight from different parts of a lift; car floor, ropes and rope attachments.

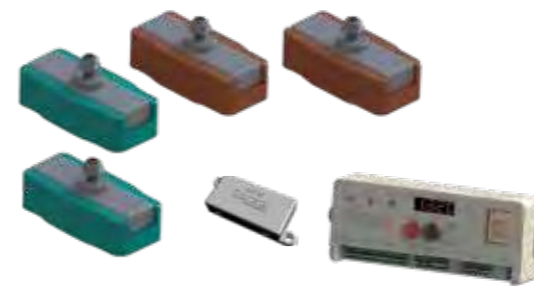
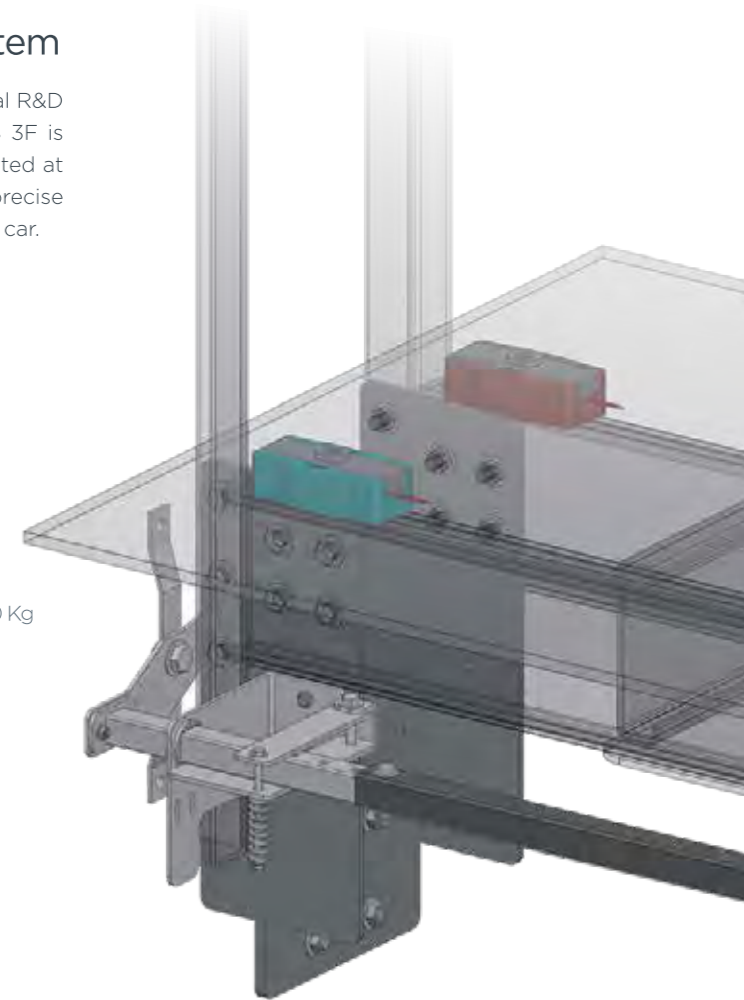
Key Features;

- ✓ Thanks to DAC OUTPUT that transfers lift load information to the speed control unit. Comfortable ride and low energy consumption are this function's achievements.
- ✓ The system uses the additional TARE overload feature that it has in memory, when the lift is at the last floor (inhibitor switch 818 is connected). This feature clears the errors of the measuring; consequently accrue due to change of the rope tensions.
- ✓ HOLD data, car's current weight is transferred to the system just after the door closes. It prevents signaling caused due to mechanical acceleration.

LWS 3F Electronic Load Weighing System

LWS 3F is the first product of load weighing systems that Ametal R&D Department created. Introduced into the market in 2009, LWS 3F is an electronic measurement system, load cells of which are mounted at the bottom of the car. The programmable devices supplies a precise measurement without a requirement for any physical load inside car. Thanks to this unique feature that setting can be completed easily and within minutes.

- Operating Voltage** : 220VAC 50Hz
- Number of Outputs** : 3
Overload: 804 - Full Load: 805 - Minimum Load: 802
- Output Ranges** : 10A 120VAC / 7A 240VAC
- Capacity** : 2000 Kg with stabilizing wedges 8000 Kg
(Except the weight of cabin and the cabin frame)
- Weight** : 0,6 Kg / Sensor
- Total Weight** : 4,075 gr
(4 Load cells - Power unit - other parts)
- Number of Loadcells** : 4
2 Pcs Orange, 2 Pcs Turquoise
- Cable Length** : 4,5 - 6m
- Temperature** : -5°C - 70°C
- Guarantee** : 2 Years



The minimal designed, plastic power unit box of LWS 3F is screwless type and easy to mount with its plug-in type output cables. The power unit has protruding characters on its surface.

CABIN + CAPACITY (kg)	2000	2500	3000	3500	4000	4500	5000	5500
LWS NUMBER OF WEDGES	4	6	6	8	8	10	10	12
ACTIVE	4 Active	4 Active 2 Passive	4 Active 2 Passive	4 Active 4 Passive	4 Active 4 Pasif	4 Active 6 Passive	4 Active 6 Passive	4 Active 6 Passive

Above listing is prepared according to maximum load in the cabin.

P+Q: 8000 kg can be used with a tolerance 10 %.

4 load cells of LWS 3F system can measure weight up to 2.000 Kg (Capacity). For upper capacities, additional wedges should be used according to the table above. Wedges are to balance load cells of the system.

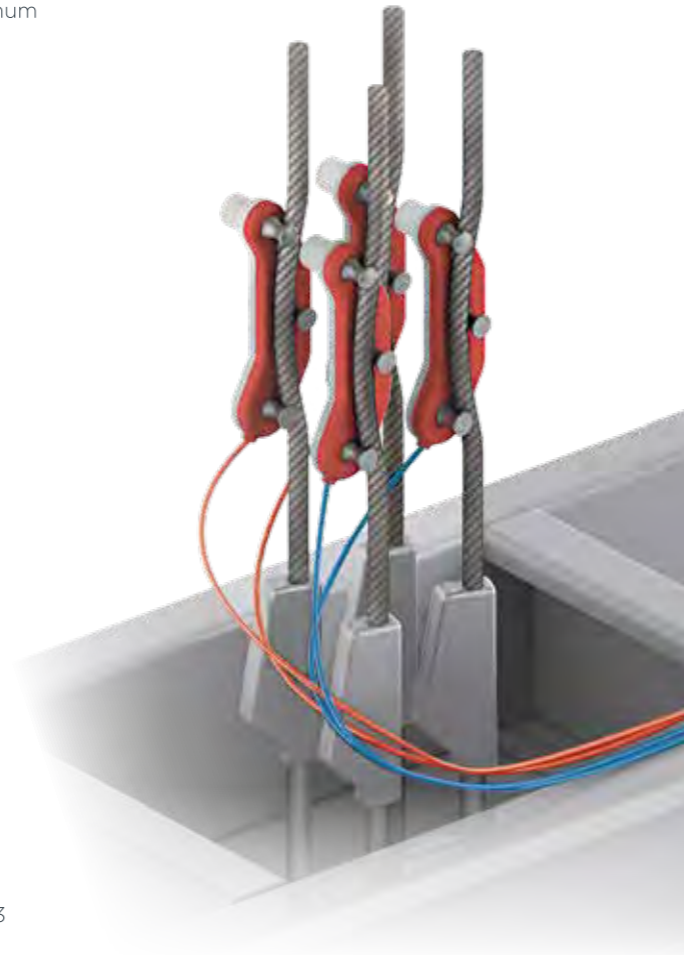
NOTE: 2 Active 2 Inactive wedges can be used for 320 Kg and below capacity cabins.

LWS 3F 210 Electronic Load Weighing System

LWS 3F 210 Load weighing system measures the load inside cabin through 4 Load cells mounted on the steel ropes.

It makes a measurement in 3 main functions; overload, full load and minimum load. Thanks to its sensitivity that is below 5%, the system guarantees an accurate measurement.

Operating Voltage	: 220VAC 50Hz
Number of Output	: 3
<i>Overload: 804 - Full Load: 805 - Minimum Load: 802</i>	
Kontak Değerleri	: 10A 120VAC / 7A 240VAC
Capacity	: 4000 Kg 1/1 System- 8000 Kg 2/1 System
<i>Except the weight of cabin and the cabin frame</i>	
Weight	: 0,35 Kg/Sensor
Total Weight	: 1.620 gr
<i>4 Load cells - Power unit - other parts</i>	
Number of Loadcells	: 4
Rope Diameter	: (6,5/8mm)-(9/10mm)-(11/12mm)
Cable Length	: 4,5
Temperature	: -5°C - 70°C
Guarantee	: 2 Years
Cable Diameter Range	: 6,5-8 Model 1 / 9-10 Model 2 / 11-12 Model 3



NOTE: Appropriate load cell model must be selected according to the rope diameter used in the system.



The most important feature of LWS 3F 210 System is its advantage of usage inside shaft without having any modifications. As a matter of fact, besides saving of time, it also serves as an economic solution for existing lift projects.

LWS 3F 310 Electronic Load Weighing System

The LWS 3F 310 Electronic Load Weighing system is a patented, unique product, capable of measuring the weight from rope attachments.

The unique design offers an ideal solution for new lift projects. Its compact and light structure supplies easy assembly.

Operating Voltage	: 220VAC 50Hz
Number of Outputs	: 3
<i>Overload: 804 - Full Load: 805 - Minimum Load: 802</i>	
Outputs Ranges	: 10A 120VAC / 7A 240VAC
Capacity	: 4000 Kg 1/1 System - 8000 Kg 2/1 System
<i>Except the weight of cabin and the car frame</i>	
Weight	: 0,4 Kg/Sensor
Total Weight	: 2.220 gr
<i>4 Load cells - Power Unit - Other Parts</i>	
Number of Loadcells	: 4
Cable Attachment	: 12mm/ 14mm/ 16mm
Cable Length	: 4,5
Temperature	: -5°C - 70°C
Guarantee	: 2 Years
Cable Diameter Range	: 6,5 - 12mm



The distinguishing feature of LWS 3F 310 is its tension measurement from the rope rods. This system is offered to the market by Ametal as the first in the world. Cylindrical shaped load cells have a shaft diameter of 16mm. Thanks to this feature that the system can be used with rope rods of 12 mm dia.



An Outstanding Feature, A Comfortable Ride; **amono-S**

AMONO-S is an electronic monostable switch. Determining the position of the lift in the shaft, the electronic product also communicates with the electronic controller.

AMONO-S is designed to operate within a wide temperature range (-40 up to + 150). It is protected against electromagnetic fields and static voltage.

General Features:

- Single switch operated by N-S magnet
- 30 mm of magnet sensing distance
- Durable, lightweight and easy in assembly
- Easily installed by the metal legs
- LED on board offers a visual warning signal

COMPATIBILITY
EN 81-20



MOUNTING

Choose a professional for An Ideal Lift Controller!

Ametal is producing controllers since the first day of foundation. Electronic controller has the most important function in Aries Complete Lift Systems. The proper inner wire positioning for each lift, provides comfort for technician while sorting out problems which may emerge after long years of usage.



The systems we prefer for our controllers are;

- Arkel /ARL-300
- Arkel /ARL-700
- Arcode

VVVF Drives

- Arkel ARL-300, Arkel ARL-700
- Arkel Adrive

Plug-in type prewiring for shaft

Ametal makes the wiring of shaft and controller very simple for installer using the plug-in type prewiring for shaft. From operation panels to door contact and optional shaft illumination, all the components are produced with plug-in type wiring.

The controllers produced for ARIES 350/400 and 450 MRL systems can be produced in 2 m cabinet of satin stainless steel or metallic gray color.



Pit hand terminal is enclosed in plug-in type prewiring system



Hand terminal is delivered with revision box and it provides movement flexibility while running or maintaining the lift.



TRIO Complete System Solution of Ametal

TRIO is a complete solution set that is produced and tested by AMETAL. The system consists of;

- Integrated Lift Controller
- Can-Bus Prewiring
- Can-Bus Compliant Landing and Car Fixtures

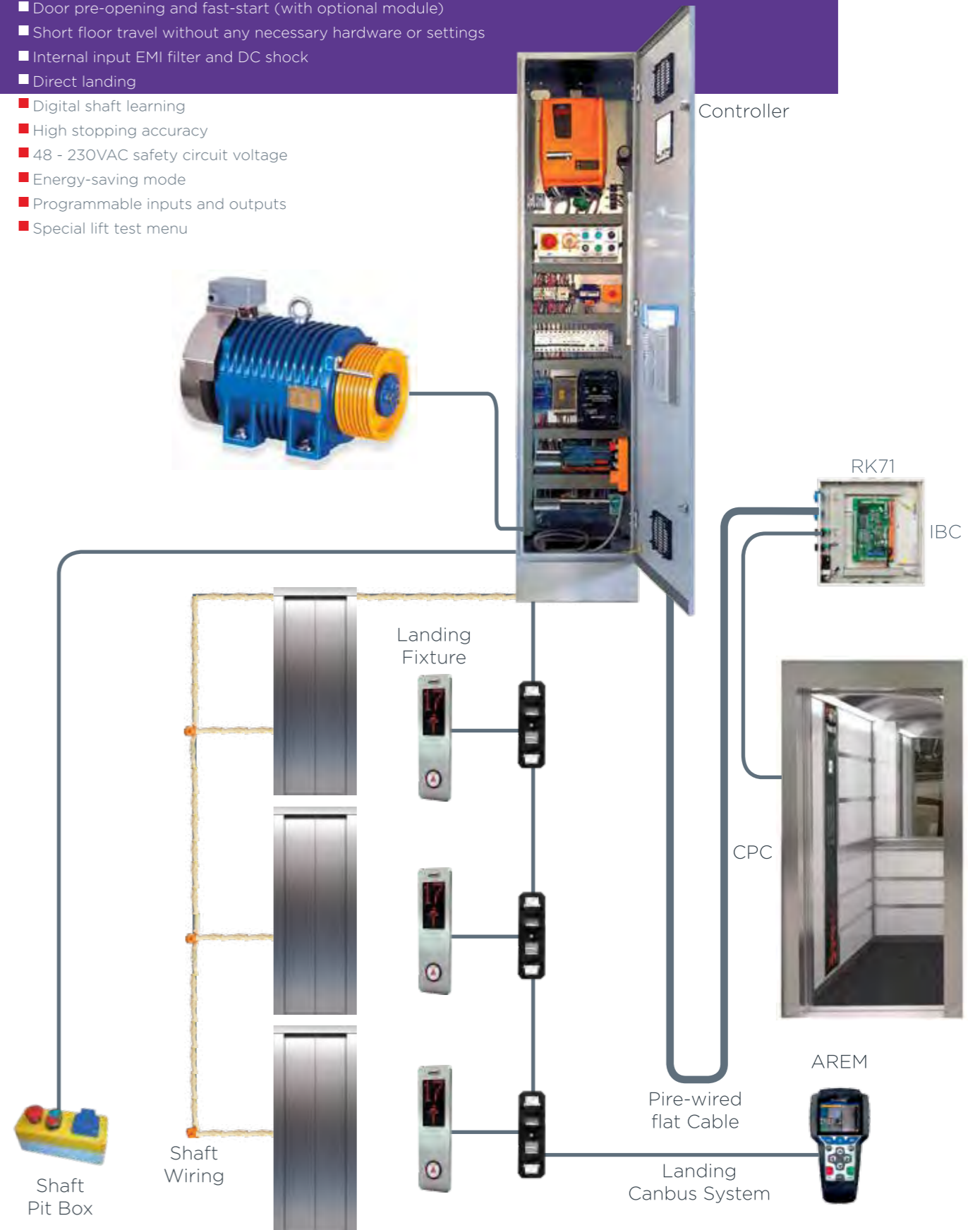
ARCODE® is an integrated lift control unit that combines VVVF inverter, control board and evacuation system in a single package. Fully synchronized units of ARCODE® reduce the time for installation and maintenance.

GENERAL FEATURES OF THE SYSTEM

- Installation type : Installation of new lifts or replacement of existing lifts
- Motor control : Synchronous (gearless) machines or asynchronous (geared) machines
- Drive system : With machine room (MR) or machine roomless (MRL) systems
- Cabinet installation : Inside or outside the shaft
- Speed : Maximum 4 m/s
- Group operation : Maximum 8 lifts
- Number of floors : Maximum 64 floors
- Car and landing wiring : With pre-wired Can-Bus serial wiring
- Car positioning : With incremental or absolute encoders mounted on motor shaft
- Automatic evacuation : By 220 VAC monophase UPS and battery group
- Door operation : 2 independently operated car entrances
- Feedback options : Incremental encoders (5V TTL or 10-30V HTL)
Absolute encoders (EnDat, SSI, SinCos or BISS)
- Automatic settings : Motor recognition and shaft copying, rollback prevention

+ ADDITIONAL FEATURES

- Thanks to AREM handset that the system can easily connect to ARCODE and any updates on the software is possible.
- Color TFT display with user-friendly and multilingual interface
- Door pre-opening and fast-start (with optional module)
- Short floor travel without any necessary hardware or settings
- Internal input EMI filter and DC shock
- Direct landing
- Digital shaft learning
- High stopping accuracy
- 48 - 230VAC safety circuit voltage
- Energy-saving mode
- Programmable inputs and outputs
- Special lift test menu



SAFETY FOR EVERYONE

DODE NG20 is an intelligent door detector for lifts.

Thanks to its screw friendly structure that the assembly can be completed within minutes, without the need of a mounting kit.

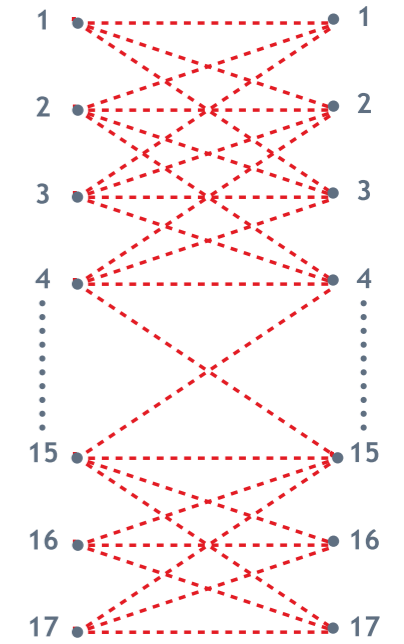


DODE NG20



Standard Nr	EN 81.1 & EN 81.2
Detecting Range	0-4000 mm
Operation Temperature	-20°C -- +65°C, 1000.000 LUX
Tolerance	Vertical: ±15mm(7°), Horizontal: ±3 (5°)
Responce Time	≤ 100 ms
Power Consumption	≤ 4W
Signal Output	Normal Output: 1NO+1NC Faulty output: 1NC
Yellow LED in receiver	Power Indicator
Red LED receiver	ON:Shielded or Fault
Working voltage	185 - 300 VAC

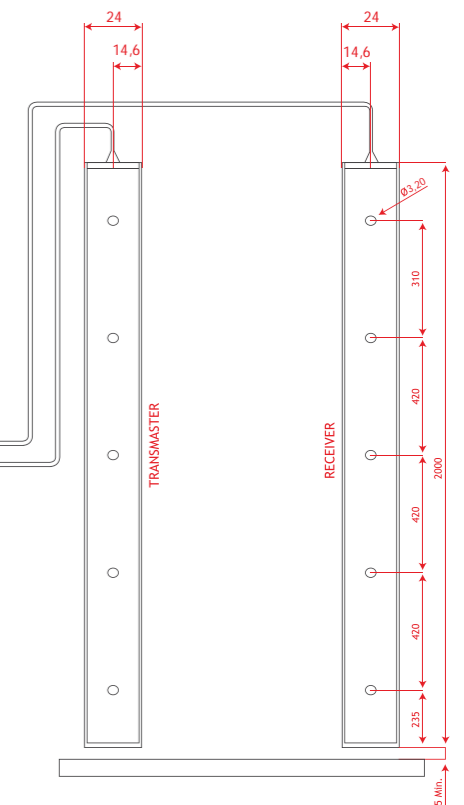
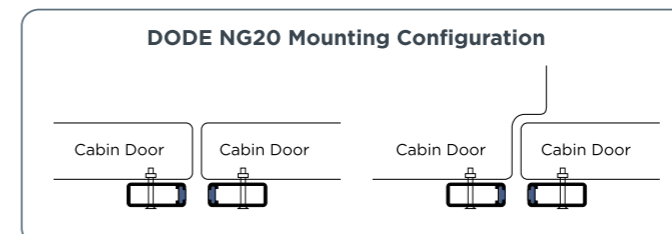
Position of The Beams



DODE NG20 Assembly Configuration



*Optional mounting kit of DODE NG20 Door Detector is available.





FAST DELIVERIES

Quality and rapidity are strong aspects of Ametal. In addition to its advanced production technologies, it has succeeded to minimize production time with its lean manufacturing processes.

PROFESSIONAL PACKING

For us, all parts forming lifts are important and they deserve delicate packing. For domestic shipments, carton packages, for international shipments smart* wooden crates and euro pallet packaging are of our standard.

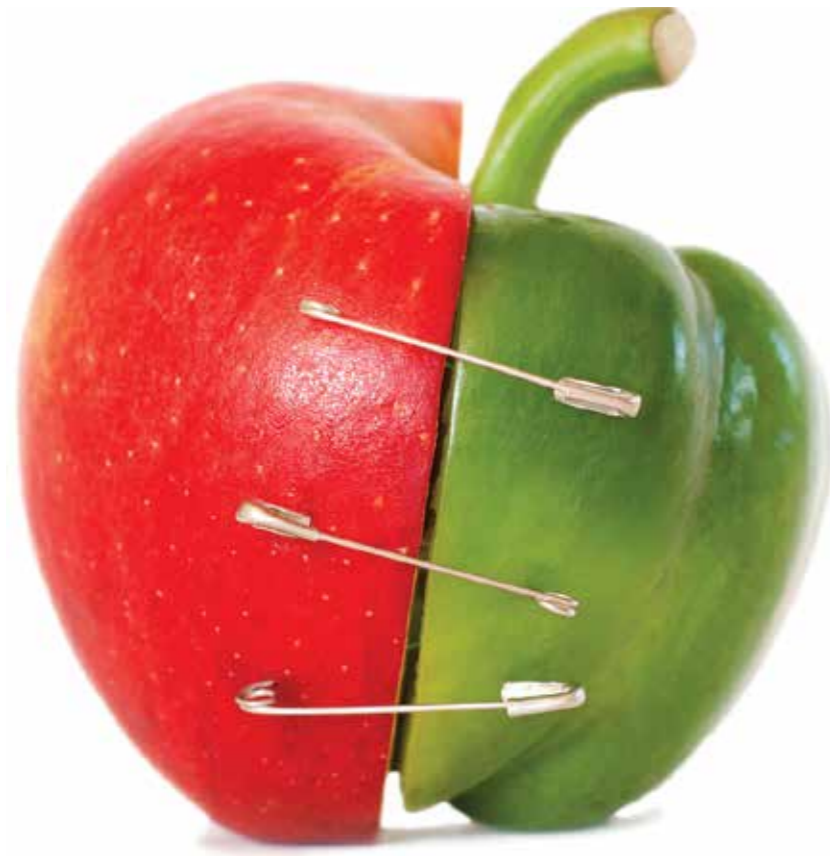
*The strength and durability are determined according to International norms.

AFTER-SALES SERVICES

The most important factors that lead Ametal to the top are its high quality of service and its privilege to supply confidence to its customers. Ametal, under any circumstances, stays by its products. The technical support provided by an expert team is a small part of the privileged service we offer.



*What isn't part of the solution,
is part of the problem*



Ametal raises the standards by providing total compatibility between the components of its package lift solutions.



Advantages of Package Lift Systems

- Max. performance provided by compatible components
- Fast delivery and short assembly time leading to smooth service
- Persistent technical support and warranty from a single hub
- The privilege of 2014/33/EU compliant, certified equipment





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