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ACTIVE-DF36
IPQ67

v.02.2024

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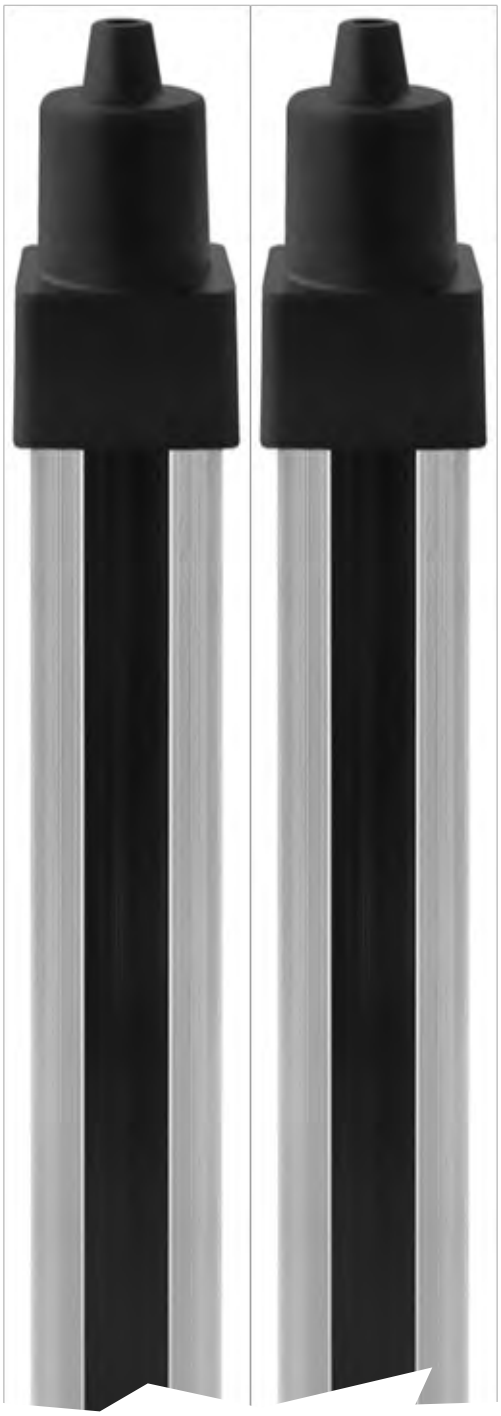

IPQ67

ACTIVE-IPQ-DF36

Barriera di sicurezza per porte rapide, portoni o cancelli
Light curtains for doors, roll up doors, sectional doors and gates
Rideaux lumineux pour portes, portes rapides, portes sectionnelles et portails
Barrera infrarroja para puertas, puertas ràpidas puertas seccionales y puertas de garaje

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ACTIVE-IPQ-DF36

DESCRIPTION

NOLOGO ACTIVE light barrier, how is it made? How was it designed? What are the best uses for it and are there any unique features? When our professional security customers ask us for the ACTIVE barrier, we keep repeating these important questions: what use should they make of it? Where should it be installed? Will it be used to secure the gate, the passage? Or to secure the door or gate automation and guarantee its opening andclosing?

The **NOLOGO ACTIVE-IPQ-DF36** barriers, in their optimal functioning,are mounted out of parallax (e.g.: TX inside and RX outside), with the activation of the auto-exclusion function or dynamic sequential suppression of the rays. The **NOLOGO ACTIVE-IPQ-DF36** light barriers, comply with the EN 12978 standard to be an EN 12453 Certificate TÜV-20 20156 05 standard electronic device, which allows it to be an autonomous safety device on a motorized door or gate. The complete system consists of a TX transmitter barrier and an RX receiver barrier, which are positioned opposite to each other, generating a parallel scanning infrared ray grid.

The self-exclusion, or dynamic sequential suppression function, allows the barriers to be placed in the tracks of an industrial door, where the door moves directly in front of the protected area, interrupting the rays in sequence from top to bottom. This ensures that the system distinguishes between the closing door and an object or person by ignoring rays that are obstructed by the moving door while leaving the next active ray to detect an object in the protected area. The integrated LED indicators mounted in the internal profile, are power indicators and system signals to monitor the operation of the barrieritself.

The new **NOLOGO ACTIVE-IPQ-DF36** watertight outdoor barriers,cannot be opened, they are delivered and installed as "simple" safety photocells. Their simplicity is the result of extensive research and experience, which allowed their final realization. They are composed of an electronic circuit resized and inserted in a plastic container, sealed at the ends with special hermetically sealed caps. In the top cap the 6x0.25 cable is internally welded and blocked by an external cable gland. The supplied cable is 3m long.On request there is the possibility to connect the connectors to simplify the installation work. The watertight casing is inserted into an anodized aluminum profile which favors the directionality and solidity of the product, giving it a unique line and design of its kind. Everything is supplied with **AC-CLIP** clips for convenient external fixing without having to intervene in any way inside the barrier.

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ACTIVE-IPQ-DF36

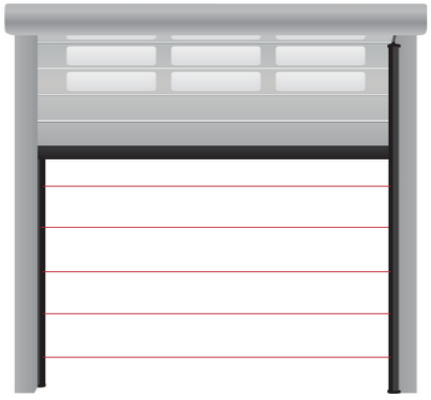
FEATURES

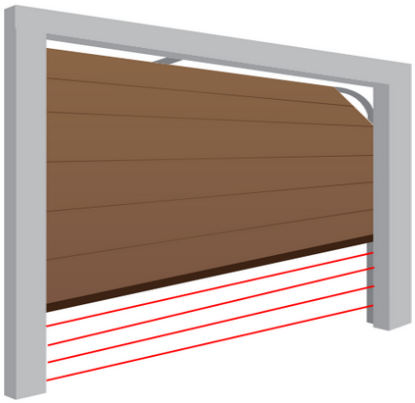
- Dimensions: **23 x 18mm**

- Power supply: **(switching) 10 ÷ 28 Vac / 10 ÷ 38 Vdc**
- Consumption max @ 10 Vdc: **TX <2 W**
- Consumption max @ 10 Vdc: **RX 2,5 W**
- Response time: **<50ms**
- Output: **2 solid state** (usc. statica a **PhotoMOS) max 350 mA @ 40 Vdc**
- Maximum door speed in closing: **3 m/s**
- Maximum door speed in opening: **> 3 m/s**

- Effective range: **M: 0÷7m L: 0÷11m XL: 0÷16m XXL: 0÷28m**

- Effective protection: **36 ÷ 250 cm**
- Operating Temperature: **-20°C ÷ +60 °C**
- Relative humidity: **95% max, non condensante**
- Cable length: **3m Ø5mm**
- Height: **70 ÷ 280 cm**
- IP Rating: **IP67 EN 60529**





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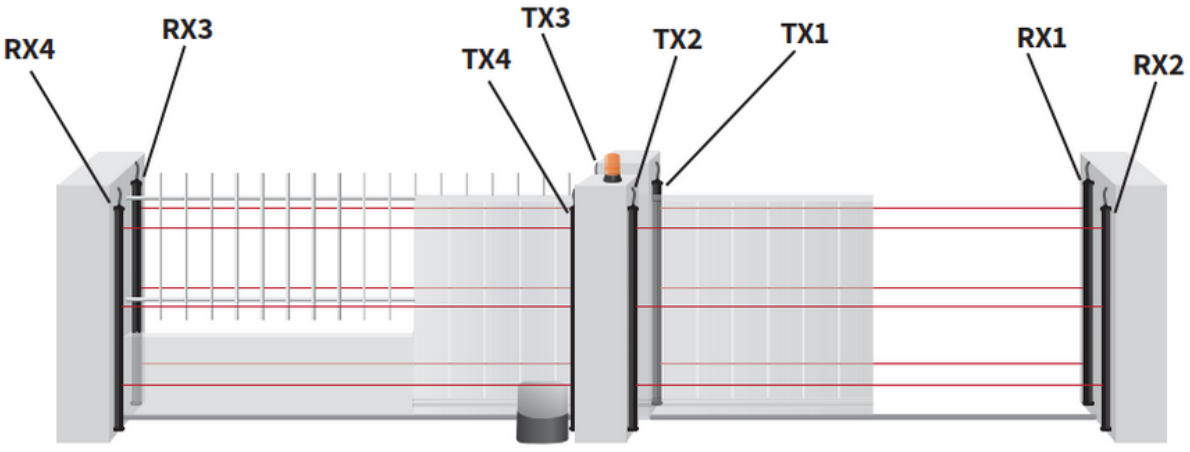
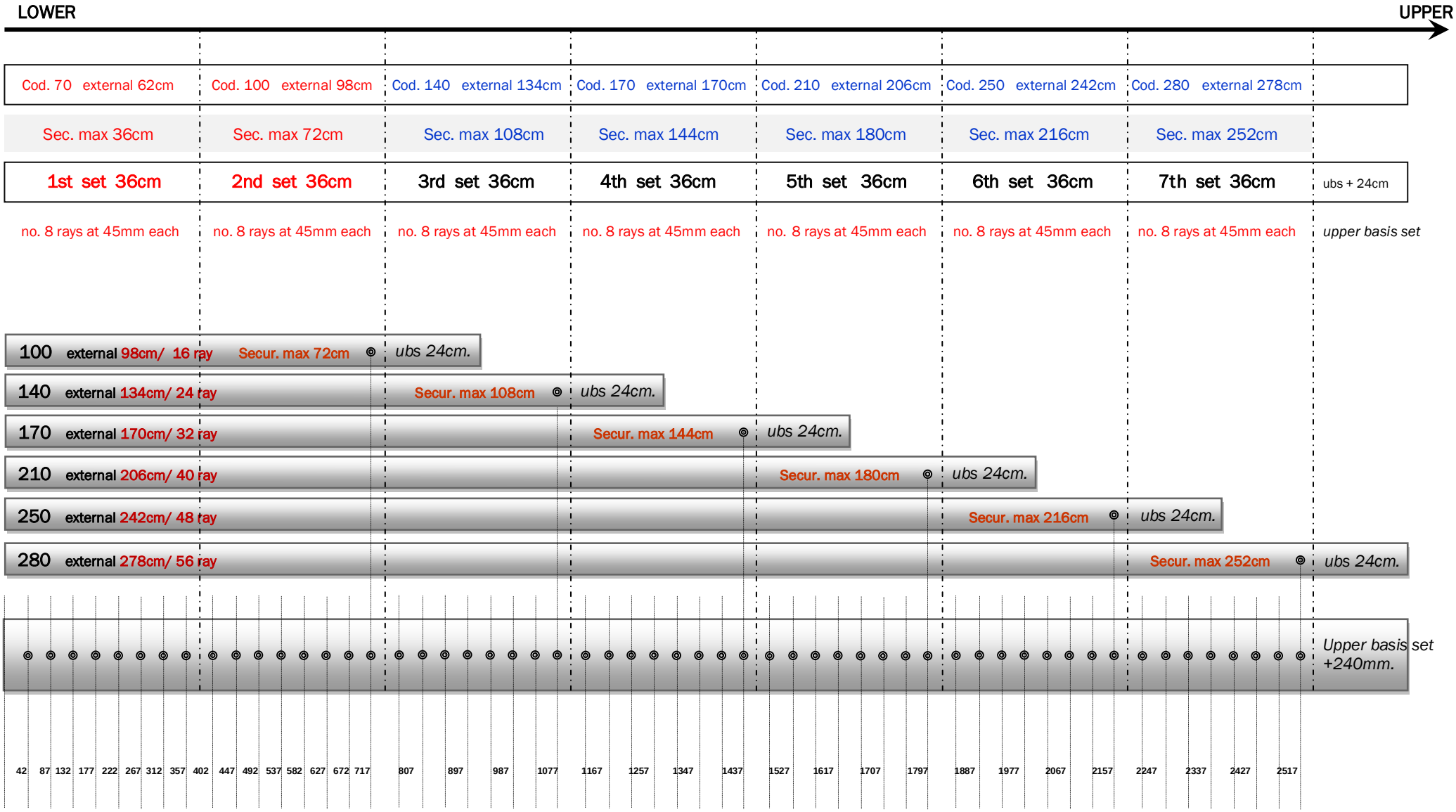
ACTIVE-IPQ-DF36

STRENGTHS

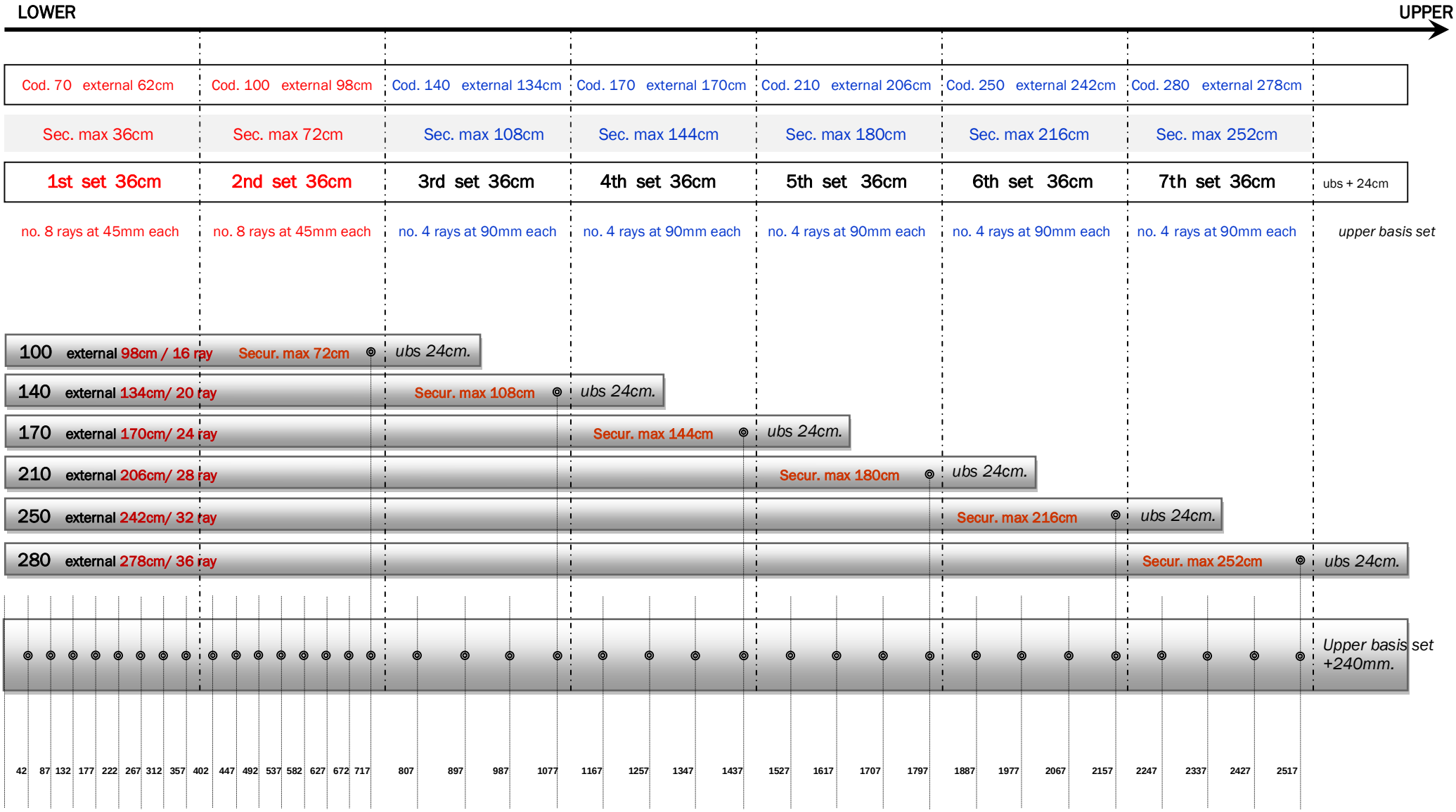
- Safetybeforeany impact
- High speeddetection
- Well finished design and easy to adapt to every structural context
- Security at every point 45mm all the rays have parallel layout (thick rays)
- Automatic optical synchronisation between TX andRX
- Unique code for every infraredray
- Power switching 10 ÷ 28 Vac / 10 ÷ 38 Vdc (wide tolerance)
- Fixing through practical external Clips
- Photo-test connection and synchronisation master/slave for the second pair of barriers
- Synchronisation system between two pairs with a uniqueconnection
- Wide-ranging with various models from 0 to 28m
- Electronic inserted into a plastic sealed IP67cover
- Anodized aluminium cover
- Cable gland on the top cap and rubber capped cover
- Connections internally welded, max 3m fire resistant cable 4x0,25 /6x0,25
- On request are available watertight connectors to simplify the installation
- Produced with easily disposable materials and mostly recyclable
- Easily reparable as far as possible



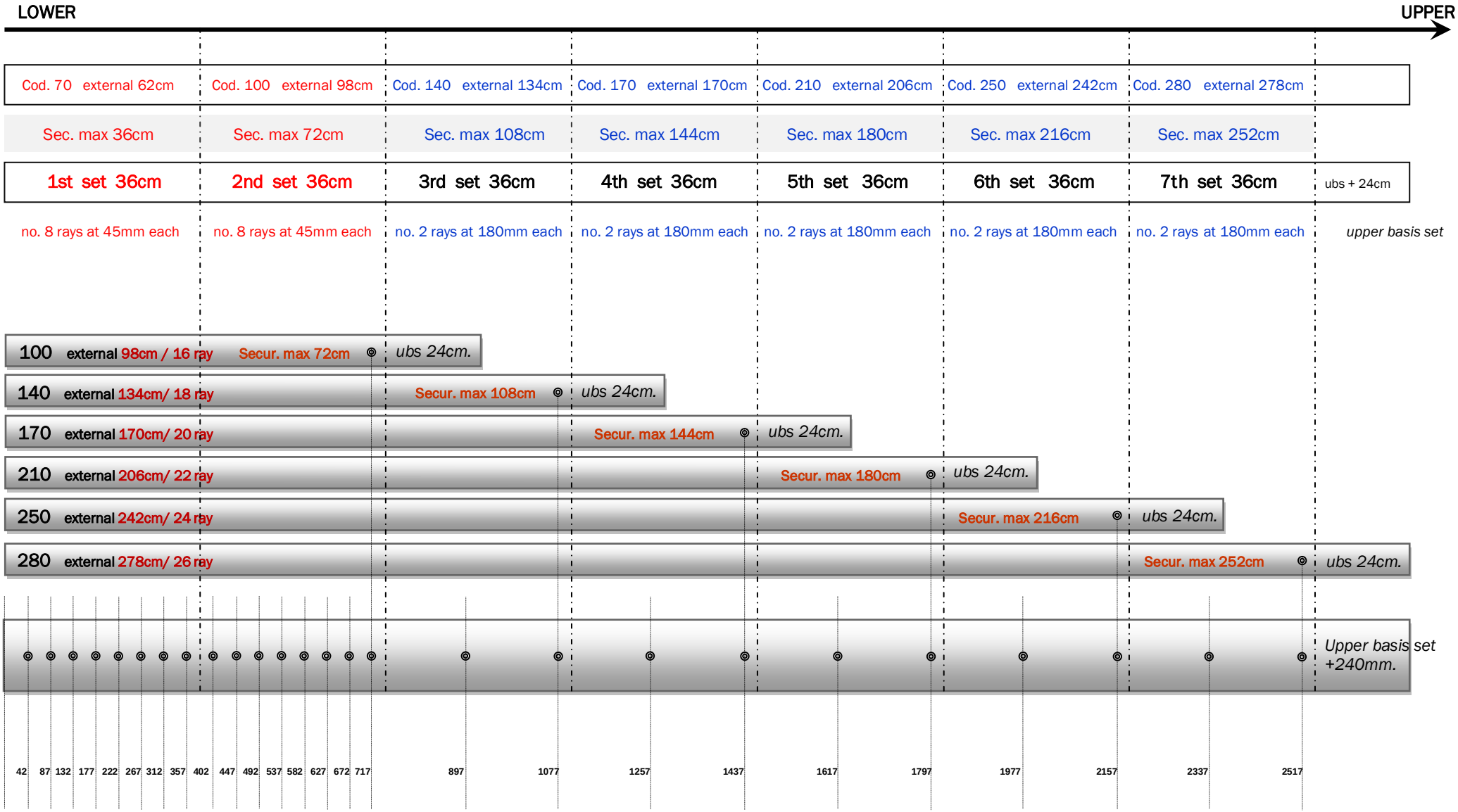
ACTIVE-IPQ-DF36 *(FF)*



ACTIVE-IPQ-DF36 *(RR)*



ACTIVE-IPQ-DF36 *(RRR)*



NOL-SCH-ACTIVE-RAYRRR-V20230508

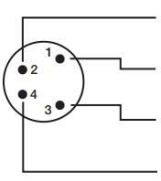
RX
BLACK

TX
GREY

OPTION 1: cable RX: **CAEL1-AC-NE-F** / cable TX: **CAEL1-AC-GR-F**

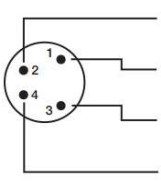
Lunghezza cavo: **3m** / Lenght cable: **3m**

RX BLACK — **4 pin, M8** Cable Plug (Female)



White	OUT NC
Brown	+ 12/24 Vac/dc
Blue	- 12/24 Vac/dc
Black	OUT NC

TX GREY — **4 pin, M8** Cable Plug (Female)



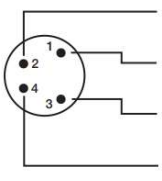
White	- TEST
Brown	+ 12/24 Vac/dc
Blue	- 12/24 Vac/dc
Black	+ TEST

OPTION 2: cable RX: **CAEL1-AC-NERO** / cable TX: **CAEL1-AC-GRIGIO**

\+ **CONN4-F** *(Connettore separato / Separate connector)*

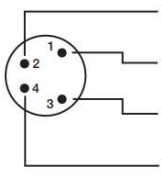
Lunghezza cavo 100m / lenght cable 100m

RX BLACK — **4 pin, M8** Cable Plug (Female)



White	OUT NC
Red	+ 12/24 Vac/dc
Black	- 12/24 Vac/dc
Brown	OUT NC

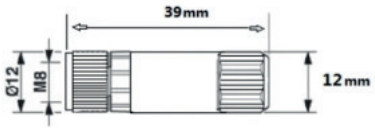
TX GREY — **4 pin, M8** Cable Plug (Female)



White	- TEST
Red	+ 12/24 Vac/dc
Black	- 12/24 Vac/dc
Brown	+ TEST

CONN4P-F

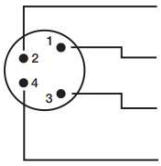
Connettore per cavo tenuta stagna, connessione solo Femmina 4 poli
Cable connector watertight, connection only Fe male 4-pin



Diametro del cavo Ø 5 mm
Cable size Ø 5 mm

RX BLACK

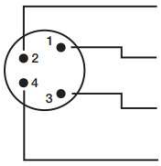
4 pin, M8



OUT NC
+ 12/24 Vac/dc
- 12/24 Vac/dc
OUT NC

TX GREY

4 pin, M8



- TEST
+ 12/24 Vac/dc
- 12/24 Vac/dc
+ TEST

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CONNECTION "STANDARD"

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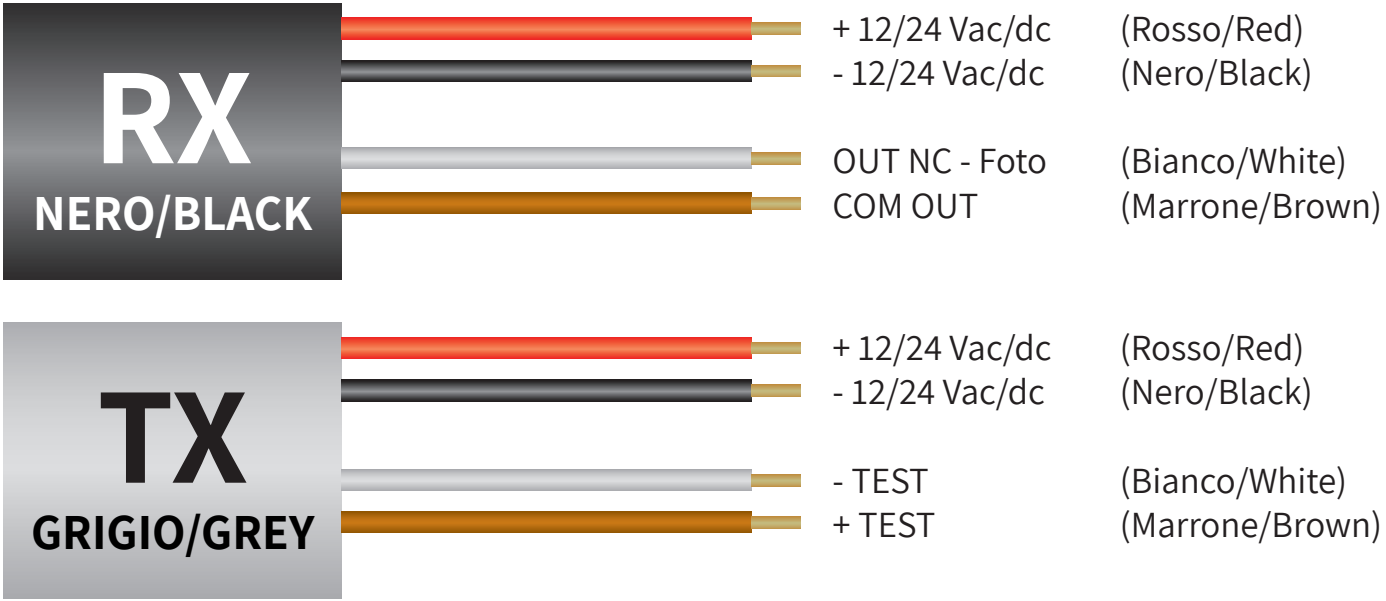

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CONNECTION "SEB"

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CONNECTION "SEB"

+ 12/24 Vdc	(Rosso/Red)
Gnd / - 12/24 Vdc	(Blu/Blue)
SEB	(Marrone/Brown)

+ 12/24 Vac/dc	(Rosso/Red)
- 12/24 Vac/dc	(Nero/Black)
- TEST	(Bianco/White)
+ TEST	(Marrone/Brown)

CONNECTION "STANDARD"

+ 12/24 Vac/dc	(Rosso/Red)
- 12/24 Vac/dc	(Nero/Black)
Gnd	(Blu/Blue)
OUT NC - Foto	(Bianco/White)
COM OUT SEB	(Giallo/Yellow)
	(Marrone/Brown)

X Non usare in vers. normal / X Do not use in normal version

VERSIONE SINCRONIZZA TA
SINCHRO VERSION
V 1.1 - NEW

TX MASTER

+ 12/24 Vac/dc (Rosso/Red)
- 12/24 Vac/dc (Nero/Black)

Gnd (Blu/Blue)
Syncro OUT (Bianco/White)

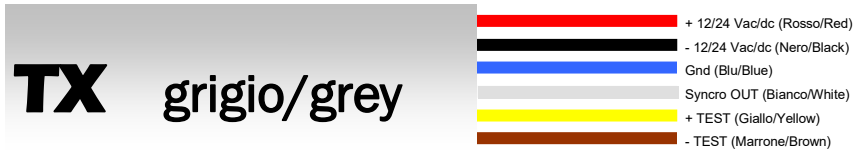
+ TEST (Giallo/Yellow)
- TEST (Marrone/Brown)

RX MASTER

+ 12/24 Vac/dc (Rosso/Red)
- 12/24 Vac/dc (Nero/Black)

OUT NC - Foto (Bianco/White)
COM OUT (Marrone/Brown)

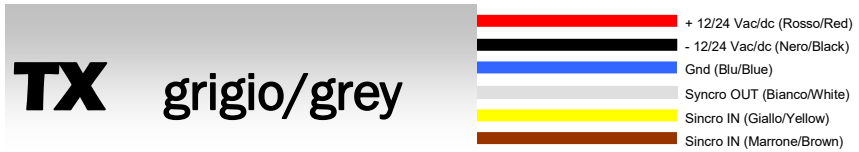
MASTER



MASTER

MASTER = non collegare/no connect

SLAVE



SLAVE

TX SLAVE

+ 12/24 Vac/dc (Rosso/Red)
- 12/24 Vac/dc (Nero/Black)

Gnd (Blu/Blue)
Syncro OUT (Bianco/White)

Syncro IN (Giallo/Yellow)
Syncro IN (Marrone/Brown)

RX SLAVE

+ 12/24 Vac/dc (Rosso/Red)
- 12/24 Vac/dc (Nero/Black)

OUT NC - Foto (Bianco/White)
COM OUT (Giallo/Yellow)

C E R T I F I C A T E

This certifies, that the company

eB Technology S.r.l.
Via della Circonvallazione, 46
20020 Dairago (MI)
Italy

Is authorized to provide the product mentioned below

Description of product:	**Infrared ESPE series ACTIVE-DF36 (HW ver. 1.0, FW ver. 1.1)**
In accordance with:	**EN ISO 13849-1:2015** **EN ISO 13849-2:2012** **EN 12978:2003 + A1:2009** **EN 12453:2017 (par. 5.1.2)** **IEC/EN 61496-2:2013**

Registration No 20 20156 05
Test Report No PS-20156-20-L-05
File reference 20156-05

Validity
from 2020-06-22
until 2023-06-22

TÜV NORD Italia S.r.l. (TÜV NORD Group)

Cerro Maggiore, 2020-06-22

Via Turati, 70 20023 Cerro Maggiore (MI) www.tuev-nord.it prodotto@tuev-nord.it

Please also pay attention to the information stated overleaf

ANNEX

Annex 1, Page 2 of 2

To Certificate-Nr. 20 20156 05

Safety functions	1. Operation block or reverse during the movement (opening / closing), in case of obstacle detection
Mode of operation	High Demand Mode

Results		
Parameter	**Value**	**Measuring Unit**
Architecture	1oo1(D)	--
HFT	0	--
Category	2	--
β, β_D factors	Not relevant	--
λ_{DD}	6,65E-07	1/h
λ_{DU}	7,39E-08	1/h
DC_{avg}	90	%
$MTTF_D$	154,44	years
PFH	7,39E-08	1/h
PL (EN ISO 13849)	c	--
Type (IEC/EN 61496-2)	2	--

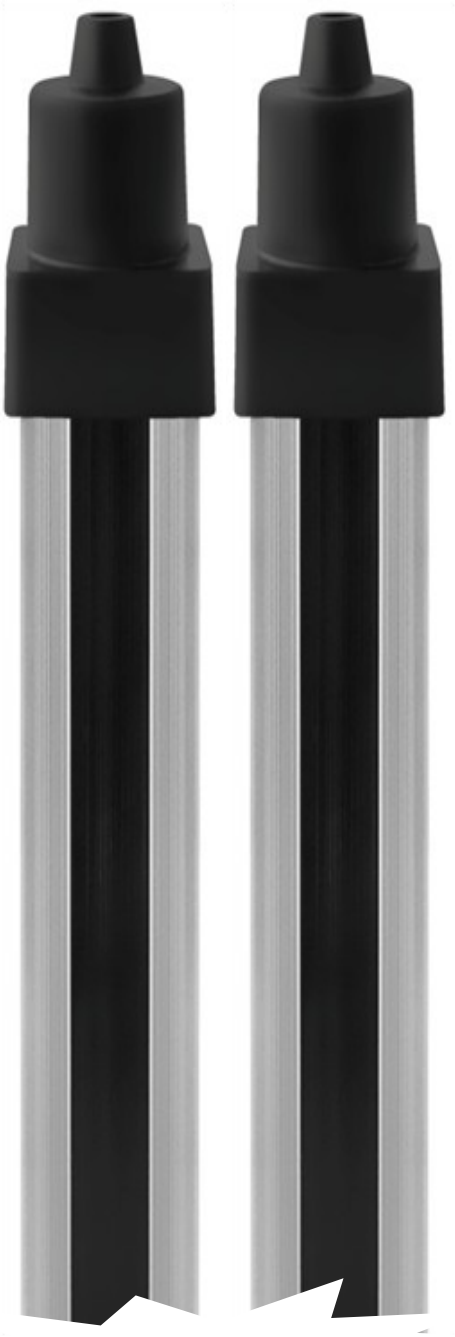
The product can be declared as compliant to:	**EN ISO 13849-1, EN ISO 13849-2, PL c** **IEC/EN 61496-2, ESPE Type 2**

Remarks:	The safety function shall be tested before each movement - test performed by the external control unit.

Light curtains for doors, roll up doors, sectional doors and gates.

Power supply: 10 ÷ 28/30 Vac

Effective range: 0÷30m



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