

ACTIVE

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

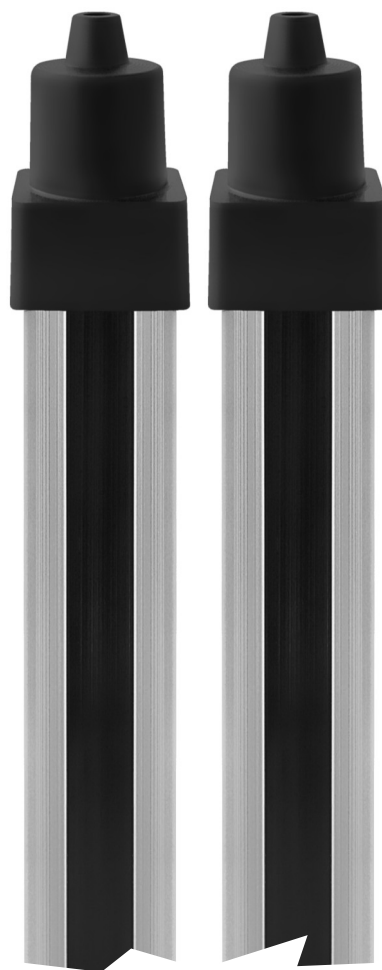


100%
ITALY

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NOLOGO SRL

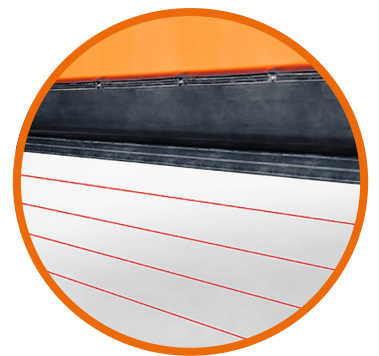
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Barriera di sicurezza per porte rapide, portoni o cancelli
Light curtains for doors, roll up doors, sectional doors and gates
Rideaux lumineux pour portes, portes rapides, portes sectionnelles et portails
Barrera infrarroja para puertas, puertas rápidas,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

NOLOGO

ACTIVE-IPQ-DF36



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 and closing?

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.

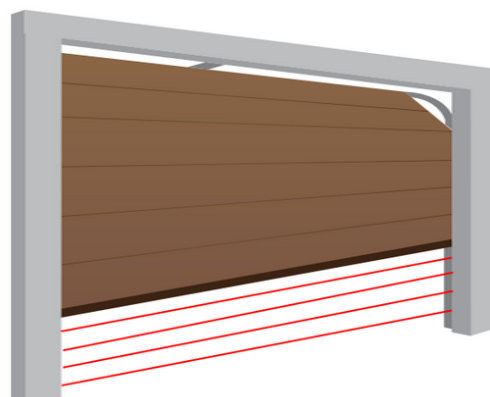
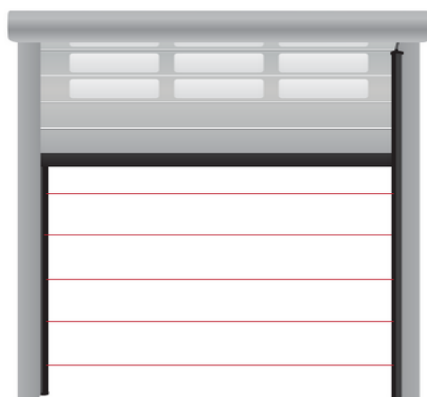
The self-exclusion, or dynamic sequential suppression function, allows the barriers to be placed in the tracks of an industrial door, where the door moves directly in front of the protected area, interrupting the rays in sequence from top to bottom. This ensures that the system distinguishes between 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 barrier itself.

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.

ACTIVE-IPQ-DF36

FEATURES

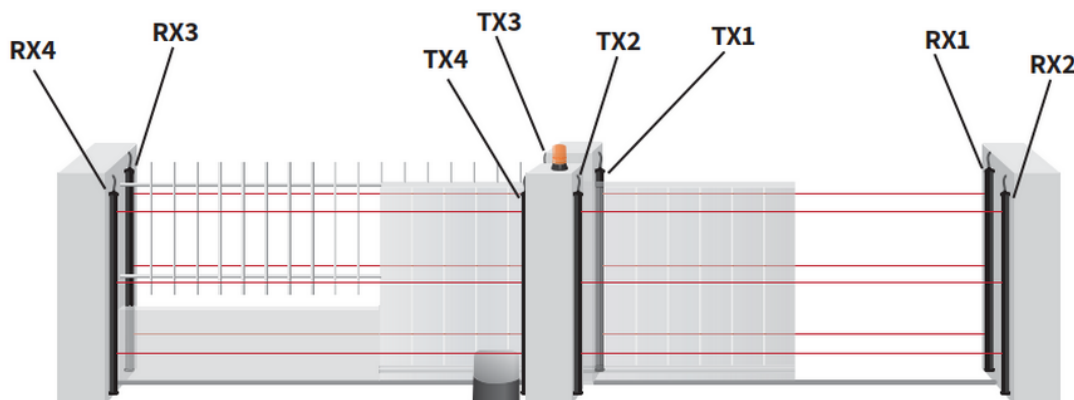
- Dimensions: **23 x 18mm**
- Power supply: **(switching) 10 ÷ 28 Vac / 10 ÷ 38 Vdc**
- Consumption max @ 10 Vdc: **TX <2 W**
- Consumption max @ 10 Vdc: **RX 2,5 W**
- Response time: **<50ms**
- Output: **2 solid state** (usc. statica a **PhotoMOS**) max **350 mA @ 40 Vdc**
- Maximum door speed in closing: **3 m/s**
- Maximum door speed in opening: **> 3 m/s**
- Effective range: **L: 0÷11m XL: 0÷18m 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: **98 ÷ 278 cm**
- IP Rating: **IP67 EN 60529**



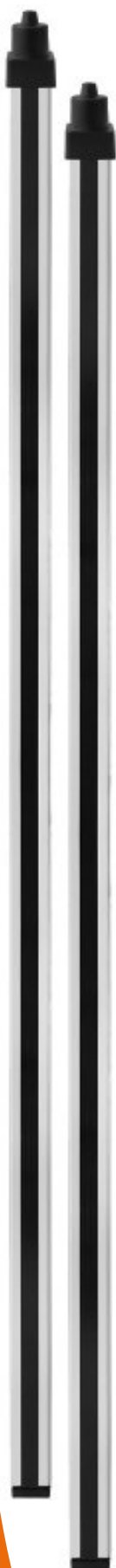
ACTIVE-IPQ-DF36

STRENGTHS

- Safety before any impact
- High speed detection
- 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 and RX
- Unique code for every infrared ray
- Power switching 10 ÷ 28 Vac / 10 ÷ 38 Vdc (wide tolerance)
- Fixing through practical external Clips
- Photo-test connection, synchronisation master/slave for the second pair of barriers
- Synchronisation system between two pairs with a unique connection
- Wide-ranging with various models from 0 to 28m
- Electronic inserted into a plastic sealed IP67 cover
- 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 repairable as far as possible



ACTIVE-IPQ-DF36



ACTIVE-70-08-FL	External 62cm - Ray 8 - Last ray 36cm / Range 9/11m
ACTIVE-70-08-FXL	External 62cm - Ray 8 - Last ray 36cm / Range 15/18m
ACTIVE-70-08-FXXL	External 62cm - Ray 8 - Last ray 36cm / Range 25/28m
ACTIVE-100-16-FL	External 98cm - Ray 16 - Last ray 72cm / Range 9/11m
ACTIVE-100-16-FXL	External 98cm - Ray 16 - Last ray 72cm / Range 15/18m
ACTIVE-100-16-FXXL	External 98cm - Ray 16 - Last ray 72cm / Range 25/28m
ACTIVE-140-24-FL	External 134cm - Ray 24 - Last ray 108cm / Range 9/11m
ACTIVE-140-24-FXL	External 134cm - Ray 24 - Last ray 108cm / Range 15/18m
ACTIVE-140-24-FXXL	External 134cm - Ray 24 - Last ray 108cm / Range 25/28m
ACTIVE-170-32-FL	External 170cm - Ray 32 - Last ray 144cm / Range 9/11m
ACTIVE-170-32-FXL	External 170cm - Ray 32 - Last ray 144cm / Range 15/18m
ACTIVE-170-32-FXXL	External 170cm - Ray 32 - Last ray 144cm / Range 25/28m
ACTIVE-210-40-FL	External 206cm - Ray 40 - Last ray 180cm / Range 9/11m
ACTIVE-210-40-FXL	External 206cm - Ray 40 - Last ray 180cm / Range 15/18m
ACTIVE-210-40-FXXL	External 206cm - Ray 40 - Last ray 180cm / Range 25/28m
ACTIVE-250-48-FL	External 242cm - Ray 48 - Last ray 216cm / Range 9/11m
ACTIVE-250-48-FXL	External 242cm - Ray 48 - Last ray 216cm / Range 15/18m
ACTIVE-250-48-FXXL	External 242cm - Ray 48 - Last ray 216cm / Range 25/28m
ACTIVE-280-56-FL	External 278cm - Ray 56 - Last ray 252cm / Range 9/11m
ACTIVE-280-56-FXL	External 278cm - Ray 56 - Last ray 252cm / Range 15/18m
ACTIVE-280-56-FXXL	External 278cm - Ray 56 - Last ray 252cm / Range 25/28m
ACTIVE-170-24-RL	External 170cm - Ray 24 - Last ray 144cm / Range 9/11m
ACTIVE-170-24-RXL	External 170cm - Ray 24 - Last ray 144cm / Range 15/18m
ACTIVE-170-24-RXXL	External 170cm - Ray 24 - Last ray 144cm / Range 25/28m
ACTIVE-210-28-RL	External 206cm - Ray 28 - Last ray 180cm / Range 9/11m
ACTIVE-210-28-RXL	External 206cm - Ray 28 - Last ray 180cm / Range 15/18m
ACTIVE-210-28-RXXL	External 206cm - Ray 28 - Last ray 180cm / Range 25/28m
ACTIVE-250-32-RL	External 242cm - Ray 32 - Last ray 216cm / Range 9/11m
ACTIVE-250-32-RXL	External 242cm - Ray 32 - Last ray 216cm / Range 15/18m
ACTIVE-250-32-RXXL	External 242cm - Ray 32 - Last ray 216cm / Range 25/28m
ACTIVE-280-36-RL	External 278cm - Ray 36 - Last ray 252cm / Range 9/11m
ACTIVE-280-36-RXL	External 278cm - Ray 36 - Last ray 252cm / Range 15/18m
ACTIVE-280-36-RXXL	External 278cm - Ray 36 - Last ray 252cm / Range 25/28m
ACTIVE-250-24-RRL	External 242cm - Ray 24 - Last ray 216cm / Range 9/11m
ACTIVE-250-24-RRXL	External 242cm - Ray 24 - Last ray 216cm / Range 15/18m
ACTIVE-250-24-RRXXL	External 242cm - Ray 24 - Last ray 216cm / Range 25/28m
ACTIVE-280-26-RRL	External 278cm - Ray 26 - Last ray 252cm / Range 9/11m
ACTIVE-280-26-RRXL	External 278cm - Ray 26 - Last ray 252cm / Range 15/18m
ACTIVE-280-26-RRXXL	External 278cm - Ray 26 - Last ray 252cm / Range 25/28m

ACTIVE-IPQ-DF36

ACCESSORI / ACCESSORIES

CAEL1-AC-NE-F	Cavo nero RX 3m con connettore F / <i>Cable black RX 3m, plug Female 4pi, M8</i>
CAEL1-AC-GR-F	Cavo grigio TX 3m con connettore F / <i>Cable grey TX 3m, plug Female 4pi, M8</i>
CAEL1-AC-NERO (4x al m.)	Cavo nero RX / <i>Cable black RX, 4x0,25</i>
CAEL1-AC-GRIGIO (4x al m.)	Cavo grigio TX / <i>Cable grey TX, 4x0,25</i>
CAEL2-AC-NERO (6x al m.)	Cavo nero RX / <i>Cable black RX, 6x0,25</i>
CAEL2-AC-GRIGIO (6x al m.)	Cavo grigio TX / <i>Cable grey TX, 6x0,25</i>
CONN4P-F	Connettore Femmina 4-pin / <i>Cable connector water tight, only Female 4-pin.</i>
AC-ALIM-1A	
AC-CLIP (cof. 4pz)	Clips per fissaggio ACTIVE / <i>Kit for fixing clips for ACTIVE</i>
AC-TAPO (cof. 4pz)	Cappuccio di chiusura / <i>Kit for fixing clips for ACTIVE with two adjustable holes.</i>
SINCRO	Maggiorazione per SINCRO / <i>Surcharge for SINCRO</i>
SEB	Maggiorazione per test SEB / <i>Surcharge for SEB test</i>

AUTOESCLUSIONE: La funzione di autoesclusione o soppressione sequenziale dinamica, consente di posizionare le barriere nelle guide di una porta industriale, interrompendo i fasci in sequenza dall'alto verso il basso. Va sempre specificata negli ordini.

BLANKING FUNCTION: *The blanking function allows the Light Curtains to be positioned in the guides of an industrial door, interrupting the beams in sequence from top to bottom. It must always be specified in orders.*

INSTALLAZIONE SINCRONIZZATA: Questa modalità è fondamentale quando si necessita di due o più coppie di barriere nello stesso impianto, evita disturbi e riflessioni fra le stesse barriere anche molto vicine. Va sempre specificata negli ordini.

SYNCHRONIZED INSTALLATION: *This mode is essential when two or more pairs of barriers are needed in the same system, it avoids disturbances and reflections between the same barriers, even very close ones. It must always be specified in orders.*

INSTALLAZIONE ROVESCIATA: Si intende quando, per casi particolari, si deve installare la barriera con i fili di collegamento rivolti verso il basso. Va sempre specificata negli ordini.

INVERTED INSTALLATION: *This means when, in particular cases, the Light Curtains must be installed with the connection wires facing downwards. It must always be specified in orders*

- **Per cancelli con sincronismo in caso di più coppie: specificare sempre!**
- *For gates with synchronism or sliding doors: always specify!*
- **Per porte rapide con o senza autoesclusione specificare sempre!**
- *For rapid doors with or without self-exclusion: always specify!*
- **Per porte sezionali con o senza autoesclusione: specificare sempre!**
- *For sectional doors with or without self-exclusion: always specify!*
- **Per serrande con o senza autoesclusione: specificare sempre!**
- *For shutters with or without self-exclusion: always specify!*

ACTIVE-IPQ-DF36

It is possible to check the functioning of the barrier by checking the indicator lights positioned as indicated in the figure.

Here we are referring to the LED lights of the barrier power module which is located in the upper part on the cable side.

The LEDs on the left **DL1 RX / DL1 TX** are on because they are correctly powered.

The LEDs on the right **DL2 RX / DL2 TX** are event signaling lights.

RX
Black

TX
Grey

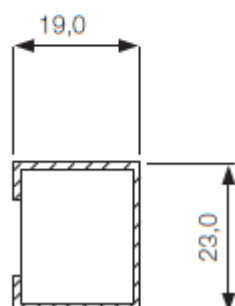
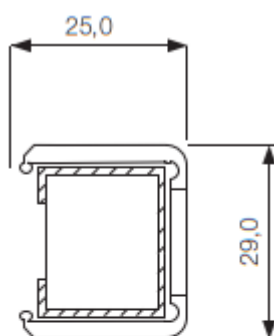
DL1 RX: ON
Light curtain
proper working

DL2 RX: ON
Light curtain
on alarm

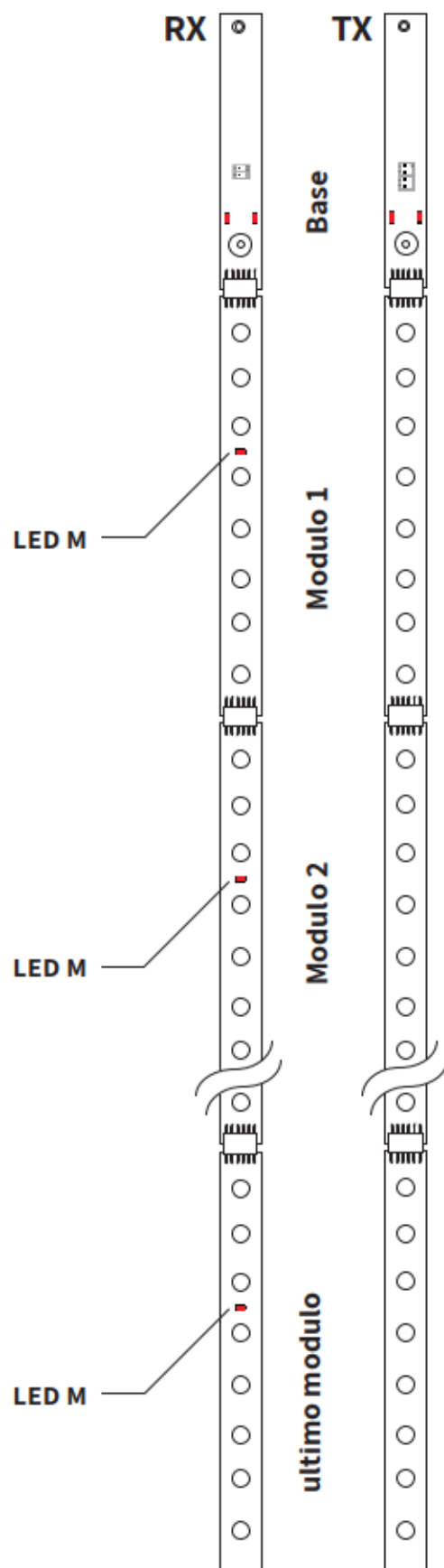
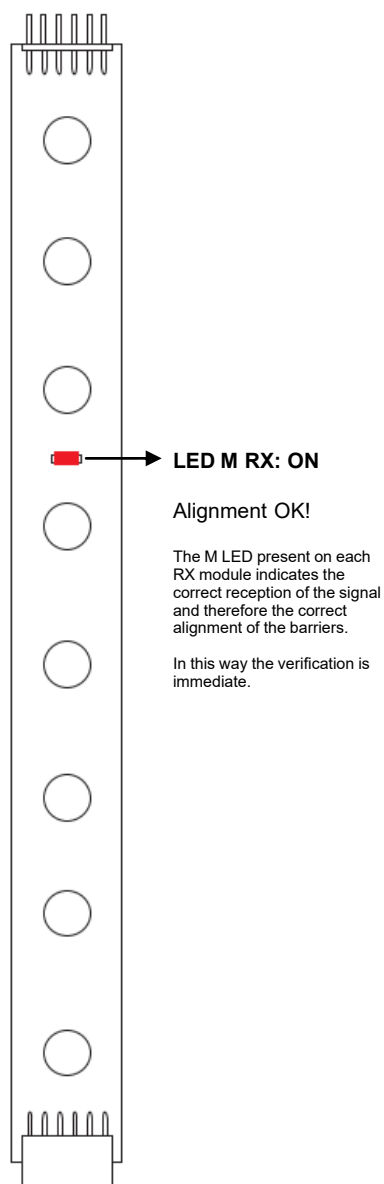
DL1 TX: ON
Transmitter
activated

DL2 TX: ON
TEST

The dimensions of the section of the aluminum profile of the ACTIVE barrier are indicated in detail, with and without the fixing clips. The measurements are expressed in mm.



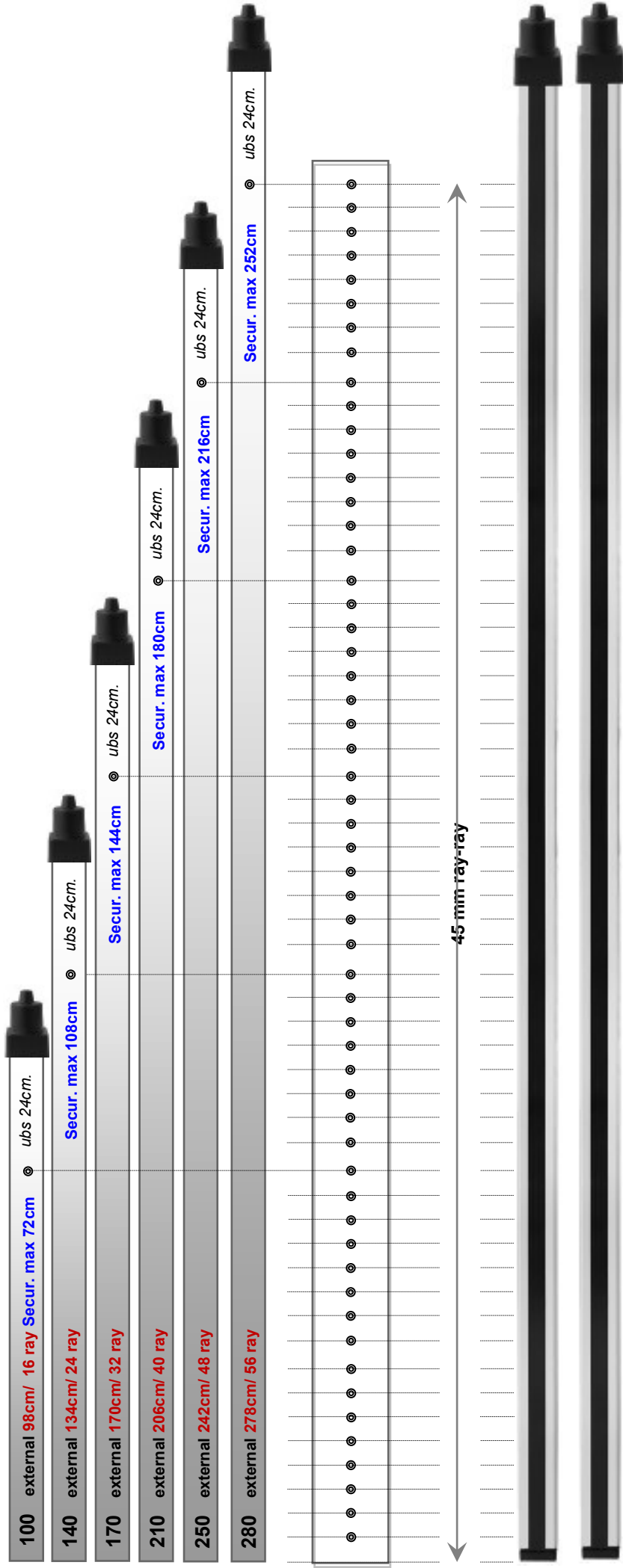
ACTIVE-IPQ-DF36



ACTIVE-IPQ-DF36

FF 45mm (raggi fitti / dense ray)

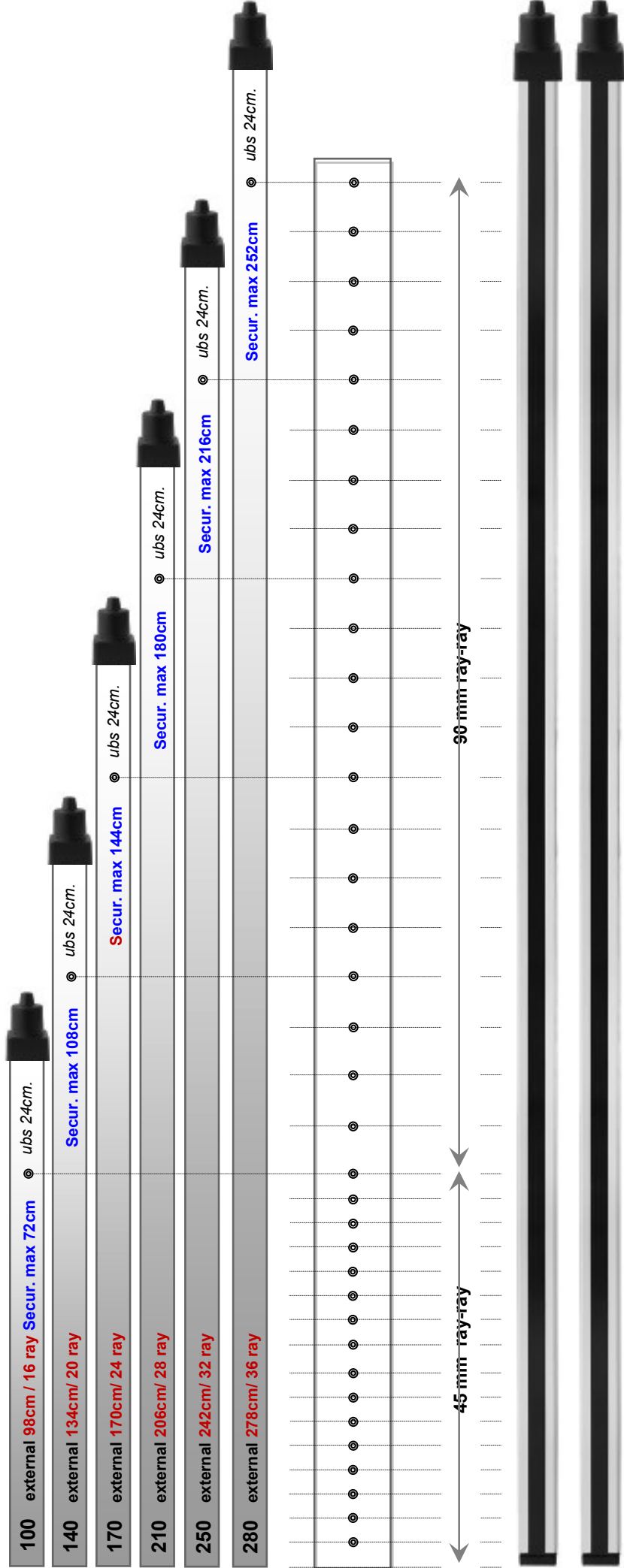
70	100	140	170	210	250	280
External 62cm	External 98cm	External 134cm	External 170cm	External 206cm	External 242cm	External 278cm
Last ray 36cm	Last ray 72cm	Last ray 108cm	Last ray 144cm	Last ray 180cm	Last ray 216cm	Last ray 252cm
1° set 36cm	2° set 36cm	3° set 36cm	4° set 36cm	5° set 36cm	6° set 36cm	7° set 36cm
n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 8 rays at 45mm each
						basis set



ACTIVE-IPQ-DF36

RR 90mm (raggi radi / sparse rays)

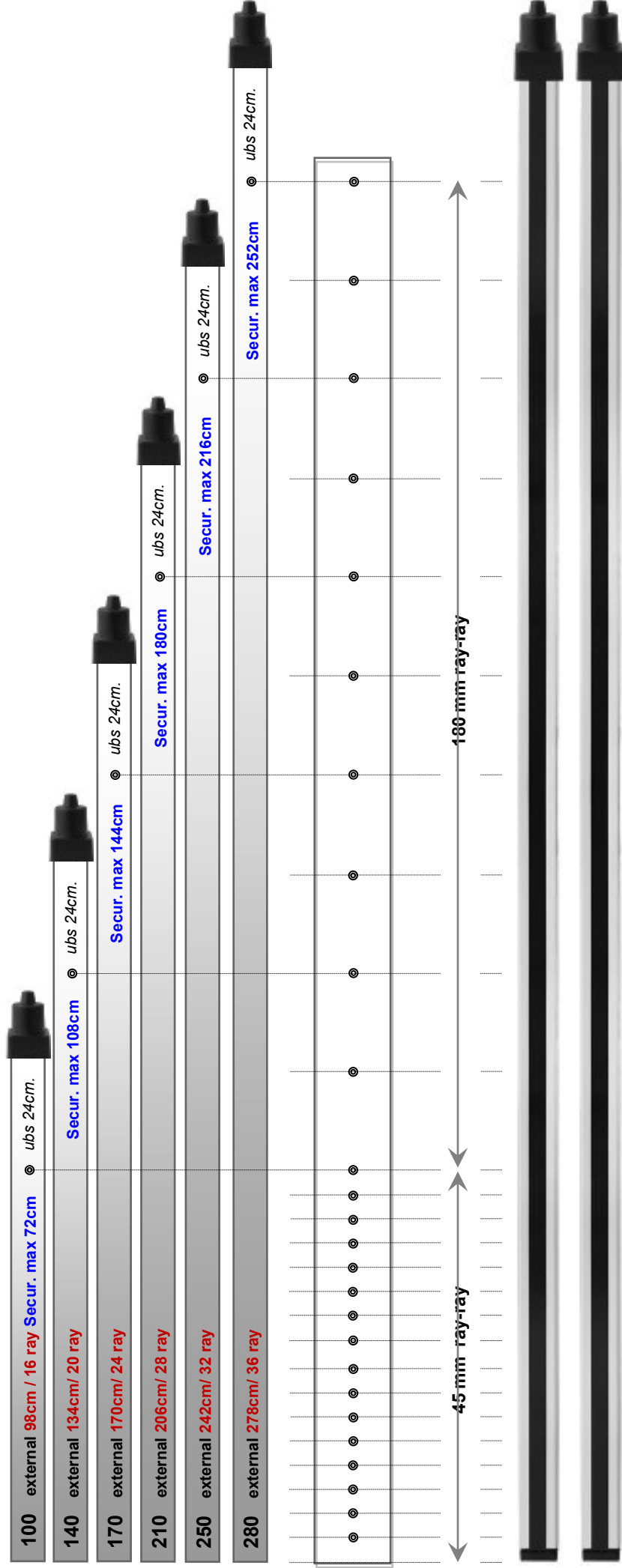
70	100	140	170	210	250	280
External 62cm	External 98cm	External 134cm	External 170cm	External 206cm	External 242cm	External 278cm
Last ray 36cm	Last ray 72cm	Last ray 108cm	Last ray 144cm	Last ray 180cm	Last ray 216cm	Last ray 252cm
1° set 36cm	2° set 36cm	3° set 36cm	4° set 36cm	5° set 36cm	6° set 36cm	7° set 36cm
n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 4 rays at 90mm each	n° 4 rays at 90mm each	n° 4 rays at 90mm each	n° 4 rays at 90mm each	n° 4 rays at 90mm each
						basis set



ACTIVE-IPQ-DF36

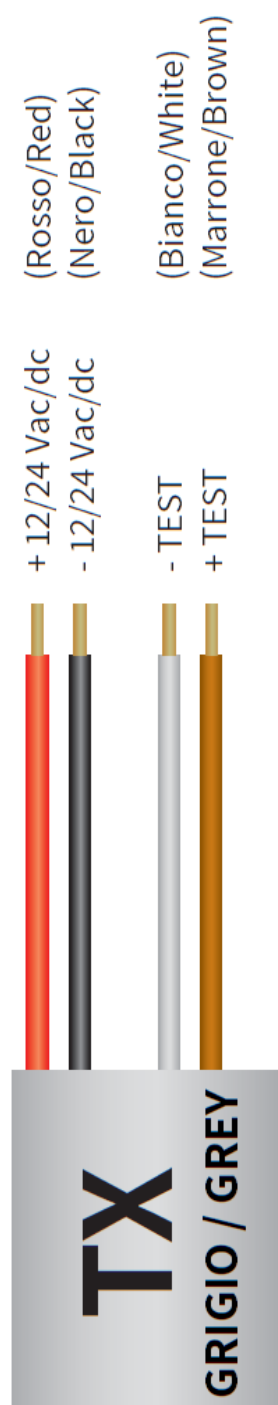
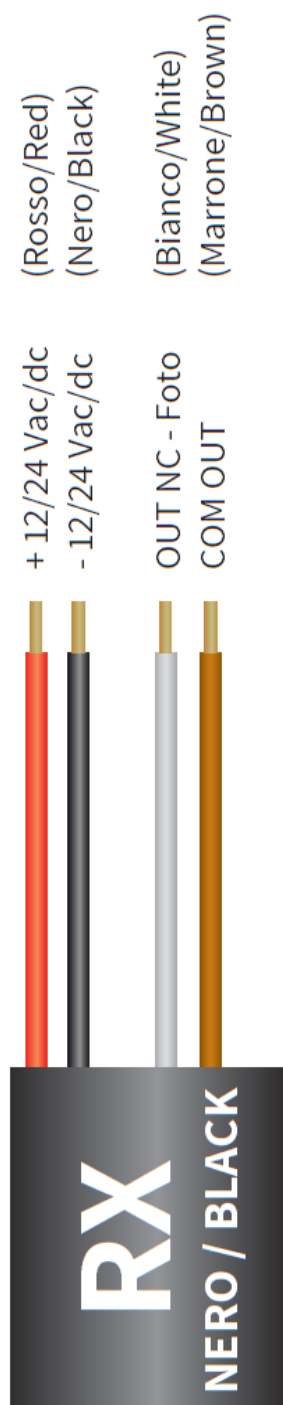
RRR 180mm (raggi + radi / + sparse rays)

70	100	140	170	210	250	280
External 62cm	External 98cm	External 134cm	External 170cm	External 206cm	External 242cm	External 278cm
Last ray 36cm	Last ray 72cm	Last ray 108cm	Last ray 144cm	Last ray 180cm	Last ray 216cm	Last ray 252cm
1° set 36cm	2° set 36cm	3° set 36cm	4° set 36cm	5° set 36cm	6° set 36cm	7° set 36cm
n° 8 rays at 45mm each	n° 8 rays at 45mm each	n° 2 rays at 180mm each	n° 2 rays at 180mm each	n° 2 rays at 180mm each	n° 2 rays at 180mm each	n° 2 rays at 180mm each
						basis set



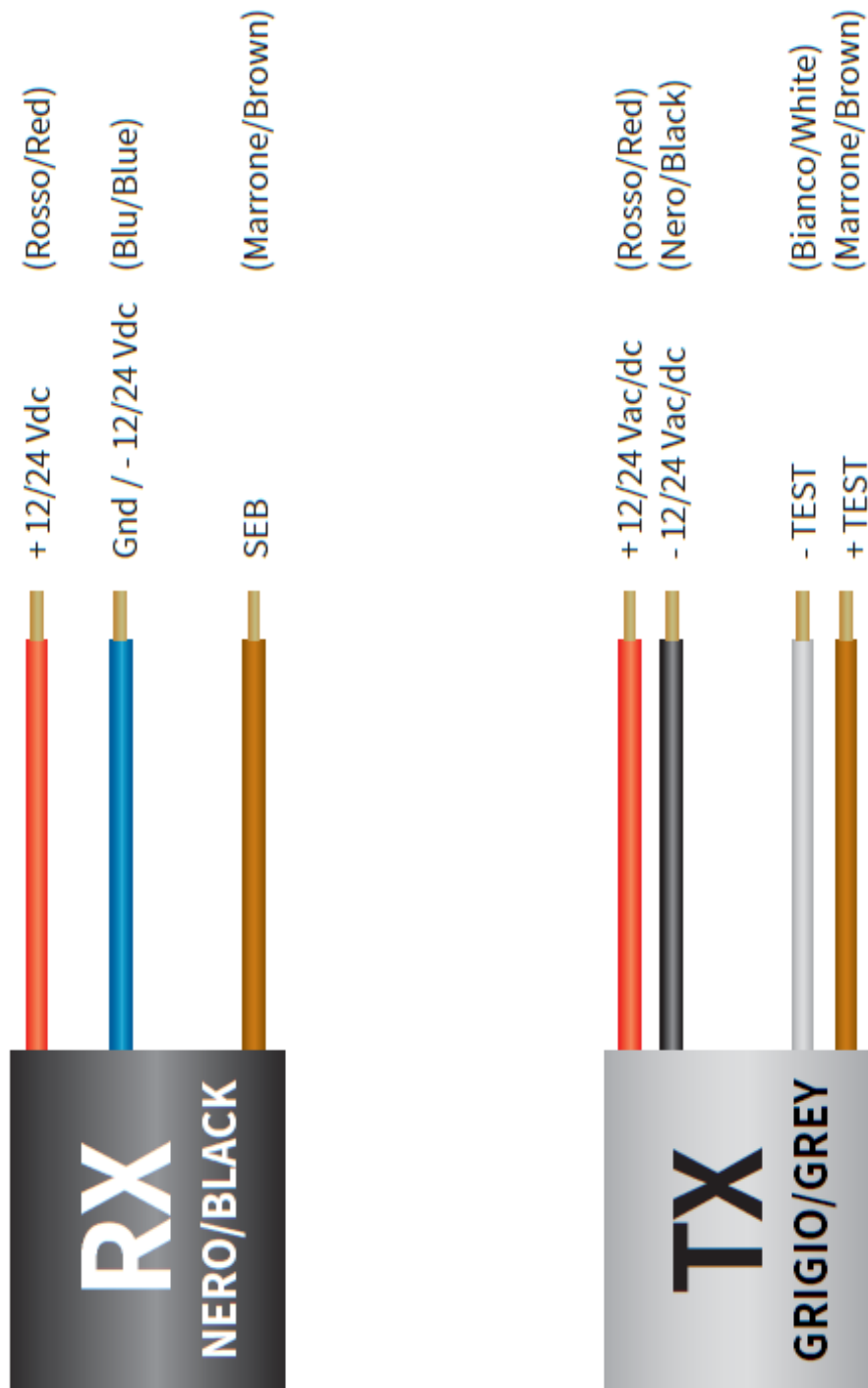
ACTIVE-IPQ-DF36

CONNECTION “STANDARD”



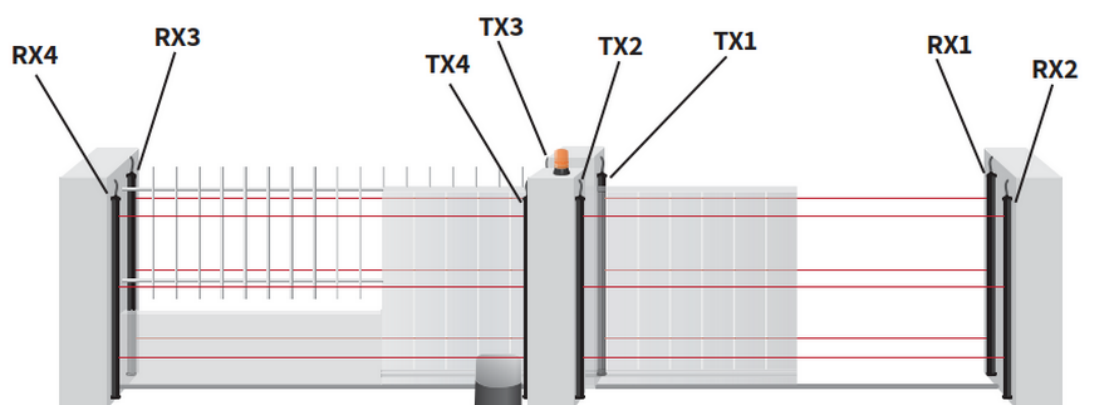
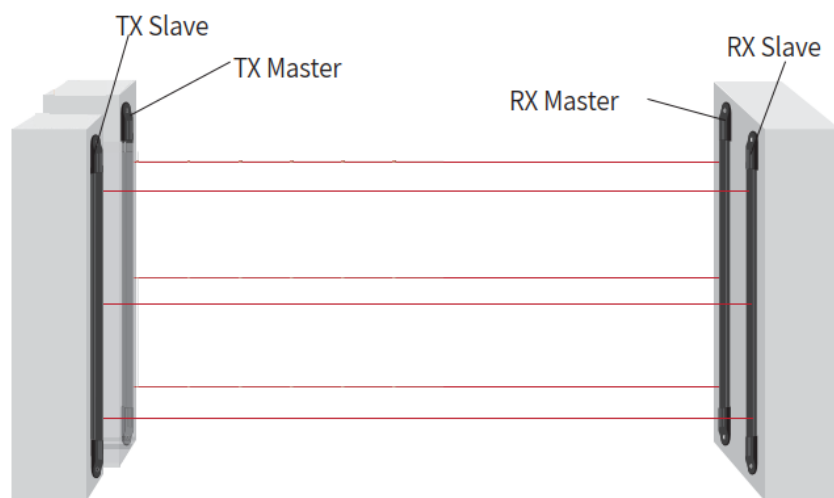
ACTIVE-IPQ-DF36

CONNECTION “SEB”



ACTIVE-IPQ-DF36

SINCRONIZZATA
SYNCHRONISED



VERSIONE SINCRONIZZATA SYNCHRONISED VERSION

V 1.1

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)

MASTE

- + 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)

TX grigio/grey

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)

TX grigio/grey

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 MASTER

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

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

MASTE

- + 12/24 Vac/dc (Rosso/Red)
- 12/24 Vac/dc (Nero/Black)
- OUT NC - Foto (Bianco/White)
- OUT COM (Marrone/Brown)

RX nero/black

MASTER = non collegare/do not

SLAVE

- + 12/24 Vac/dc (Rosso/Red)
- 12/24 Vac/dc (Nero/Black)
- OUT NC - Foto (Bianco/White)
- OUT COM (Marrone/Brown)

RX nero/black

RX SLAVE

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

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

Collegare con l'alimentazione.
Connect with the power supply.

RX: OUT-NC e OUT-COM vanno collegati in serie tra MASTER e SLAVE.

RX: OUT-NC and OUT-COM must be connected in series between MASTER and SLAVE.

RX
BLACK



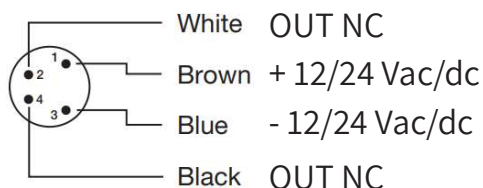
TX
GREY

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

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

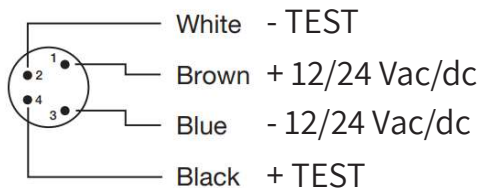
RX
BLACK

4 pin, M8
Cable Plug
(Female)



TX
GREY

4 pin, M8
Cable Plug
(Female)



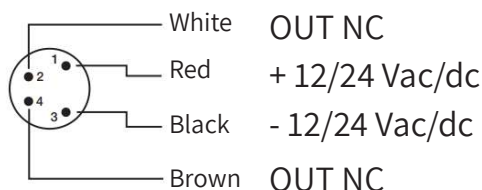
OPTION 2: cable RX: **CAEL1-AC-NERO** / cable TX: **CAEL1-AC-GRIGIO**

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

Lunghezza cavo 100m / lenght cable 100m

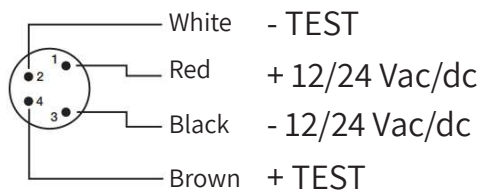
RX
BLACK

4 pin, M8
Cable Plug
(Female)



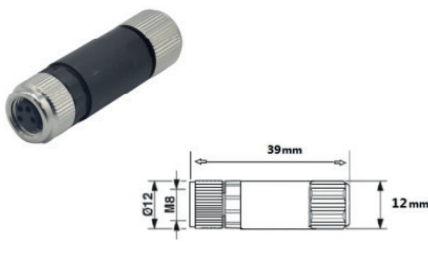
TX
GREY

4 pin, M8
Cable Plug
(Female)



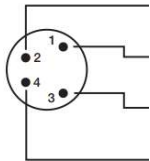
CONN4P-F

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



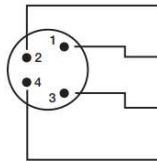
Diametro del cavo Ø 5 mm
Cable size Ø 5 mm

RX BLACK



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

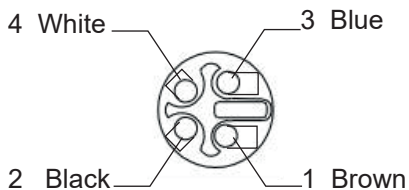
FRONT



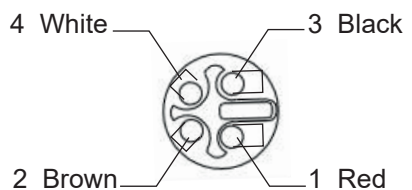
- TEST
+ 12/24 Vac/dc
- 12/24 Vac/dc
+ TEST

TX GREY

REAR OPTION 1



REAR OPTION 2



AC-CLIP

DESCRIZIONE

Confezione Clips per fissaggio ACTIVE a parete, con due fori regolabili.

CARATTERISTICHE

Costruite in materiale plastico flessibile ed adattabile agganciano il profilo delle ACTIVE per un fissaggio più stabile soprattutto per lunghezze superiori a 1,50m

DESCRIPTION

Kit for fixing clips for ACTIVE with two adjustable holes.

TECHNICAL DETAILS

Made of flexible plastic for a strong fixing system above a length of 1,5mt.



Dimensions (mm)	Pieces per package	Related product: ACTIVE
27x30x22	4	

AC-TAPO

DESCRIZIONE

Cappuccio di chiusura nero, KIT da 4 pezzi.

CARATTERISTICHE

Costruiti in gomma morbida sono i tappi a chiusura stagna per le estremità delle barriere ACTIVE.

DESCRIPTION

Rubber closing plugs, 4-piece kit.

TECHNICAL DETAILS

Made of soft rubber, are the watertight plugs for the ends of ACTIVE light curtains.



Dimensions (mm)	Pieces per package	Related product: ACTIVE
25x27x27	4	

CONN4P-F

DESCRIZIONE

Connettore per cavo tenuta stagna connessione solo Femmina 4 poli

CARATTERISTICHE

Diametro del cavo Ø 5 mm

DESCRIPTION

Cable connector watertight connection only Female 4-pin

TECHNICAL DETAILS

Cable diameter Ø 5 mm



Dimensions (mm)	Pieces per package	Related product: ACTIVE
39x5x12	1	

CAEL1-AC-NE-F**DESCRIZIONE**

Cavo nero da 3mt (RX) per
connettori 4x0,25 diametro
5,0 con connettore F.

DESCRIPTION

3m black cable (RX) for
4x0.25 diameter 5.0,
with F-connector.

**CAEL1-AC-GR-F****DESCRIZIONE**

Cavo grigio da 3mt
(TX) per connettori
4x0,25 diametro 5,0
con connettore F

DESCRIPTION

3m grey cable (TX)
for 4x0.25 diameter
5.0, with F-connector.



Dimensions (m)	Pieces per package	Related product: ACTIVE / CONN4P-F
3 meters	1	

CAEL1-AC-NERO**DESCRIZIONE**

Cavo nero da 100 mt (RX)
per connettori 4x0,25
diametro 5,0

DESCRIPTION

100 m black cable
(RX) for connectors
4x0.25 diameter 5.0

**CAEL1-AC-GRIGIO****DESCRIZIONE**

Cavo grigio da 100mt (TX)
per connettori 4x0,25
diametro 5,0

DESCRIPTION

100 m grey cable
(TX) for connectors
4x0.25 diameter 5.0



Dimensions (m)	Pieces per package	Related product: ACTIVE / CONN4P-F
100 meters	1	

CERTIFICATE

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

Walter Cane

TÜV NORD Italia S.r.l. (TÜV NORD Group)
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Validity from 2020-06-22 until 2023-06-22
Cerro Maggiore, 2020-06-22
proddito@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	
Parameter	Results	Measuring Unit
Architecture	Value	
HFT	1001(D)	--
Category	0	--
β , β_0 factors	2	--
λ_{00}	Not relevant	--
λ_{01}	6.65E-07	1/h
DC _{avg}	7.39E-08	1/h
MTTF ₀	90	%
PFH	154.44	years
PL (EN ISO 13849)	7.39E-08	1/h
Type (IEC/EN 61496-2)	c	--
	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.	

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Cerro Maggiore, 2020-06-22
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