



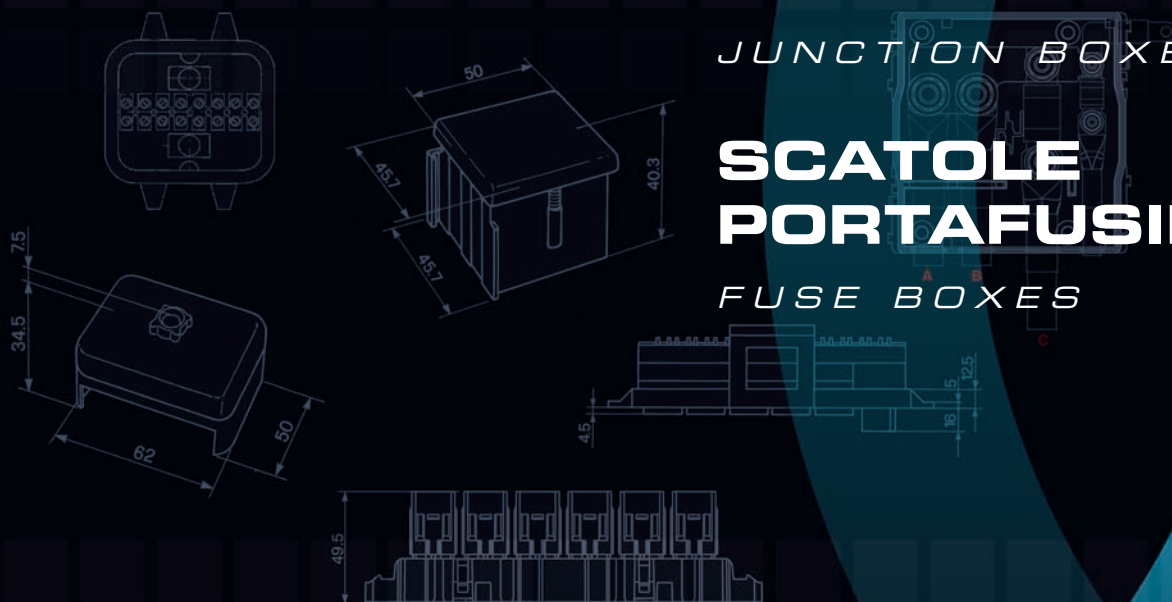
20 24

SCATOLE DI DERIVAZIONE

JUNCTION BOXES

SCATOLE PORTAFUSIBILI

FUSE BOXES







20

SCATOLE DI DERIVAZIONE

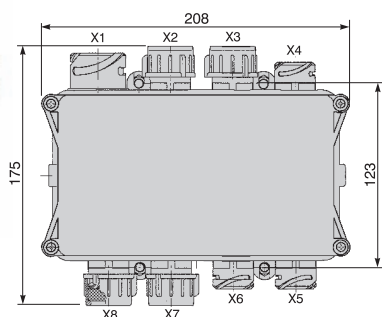
JUNCTION BOXES



- **Scatole di derivazione**
- **Junction boxes**

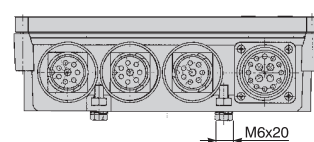
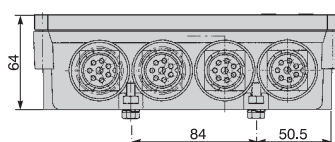
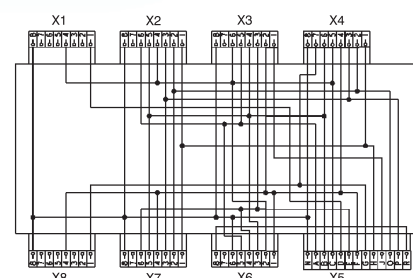
20.0102.0000

Corpo materiale plastico nero - coperchio in plastica nero
valvola drenaggio - n° 4 viti M6x20
grado di protezione IP66
Black plastic box - black plastic cover
drain valve - n° 4 screws M6x20
sealing IP66



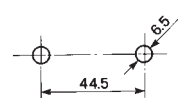
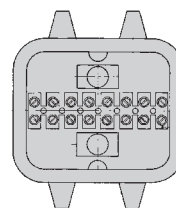
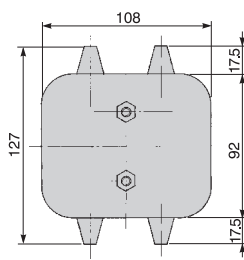
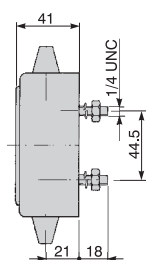
Kit di connessione controparte per X1
Mating connection kit for X1
27.0961.0000

Kit di connessione controparte
per X2, X3,
X4, X5, X6, X7, X8
Mating connection kit for X2, X3,
X4, X5, X6, X7, X8
27.0962.0000



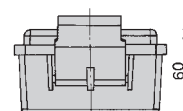
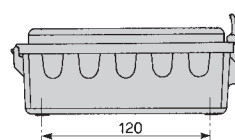
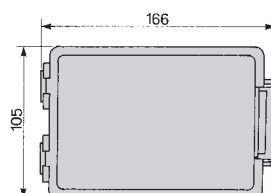
20.0107.0000

Corpo in gomma nero - coperchio trasparente
8 vie a tenuta stagna 15A
Black rubber box - transparent acrylic cover
8 waterproof ways 15A



20.0105.0000

Corpo in materiale plastico nero - coperchio in plastica nero
10 vie
Black plastic box - black plastic cover
10 ways



• Multilink CAN-BUS

Materiale corpo: Nylon nero

Tensione di alimentazione: 12-24V

Grado di protezione: IP66

Temperatura di funzionamento: $-40^{\circ}\text{C} \div +120^{\circ}\text{C}$

• CAN-BUS Multilink

Housing material: Black nylon

Power supply voltage: 12-24V

Sealing: IP66

Operating temperature: $-40^{\circ}\text{C} \div +120^{\circ}\text{C}$

• Caratteristiche

Il Multilink è un prodotto nato per migliorare il "Controller Area Network" dei veicoli e semplificarne la realizzazione.

Grazie a questo prodotto innovativo, è possibile connettere alla rete CAN-BUS in modo semplice e veloce tutti i sensori e gli attuatori evitando le classiche saldature che spesso generano problemi.

Le dimensioni contenute, l'elevato grado di tenuta e l'elevata robustezza del dispositivo ne permettono l'applicazione in esterno della cabina oppure direttamente nel vano motore.

La facilità di applicazione del prodotto è garantita da ben tre tipi diversi di fissaggio, inoltre il corpo del Multilink è dotato di speciali ganci che lo rendono modulare per poter aumentare, in caso di necessità, il numero di connessioni.

L'adozione di questo dispositivo nel Network della macchina, oltre ad aumentarne l'affidabilità eliminando le saldature, lo rende più compatto grazie alla concentrazione delle varie connessioni in un unico componente e rendono l'intero sistema flessibile, dando al costruttore la possibilità di aggiungere altri componenti in modo estremamente semplice e veloce.

• Features

Multilink has been designed to improve vehicles' "Controller Area Network" and make its production easier.

Thanks to this innovative product, it is possible to obtain a fast and easy connection of all sensors and actuators to the CAN-BUS network, avoiding traditional welding, which often causes problems. The small size, together with a high protection degree and solidity, allows outside cabin application or assembly directly inside engine compartment.

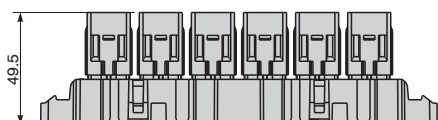
The easy application is guaranteed by three different types of fixing; moreover, the housing is provided with special brackets so that it is possible to add other connection modules if necessary.

The presence of this device within vehicle's Network, besides improving its reliability, makes it more compact thanks to the concentration of all connections into one unique component and makes the whole system flexible, giving the manufacturer the opportunity of adding other components with an easy and quick operation.

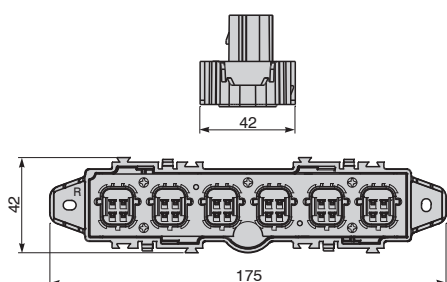


20.0108.0000

DIMENSIONI CON CONNETTORE MONTATO
OVERALL DIMENSIONS WITH CONNECTOR

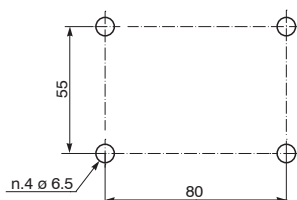


DIMENSIONI CON CAPPUCCIO
DI PROTEZIONE MONTATO
OVERALL DIMENSIONS
WITH PROTECTION CAP

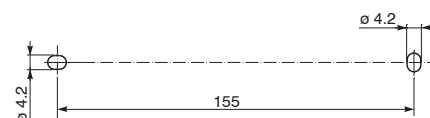


TIPDI FORATURE
FIXING HOLES

FORATURA DI APPLICAZIONE CON STAFFA
FIXING HOLE WITH BRACKET



FORATURA DI APPLICAZIONE CON VITI M4
FIXING HOLE WITH M4 SCREWS



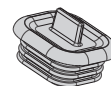


OPTIONAL
staffa - bracket
24.236.014

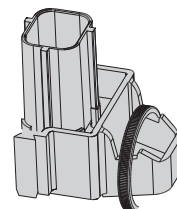
OPTIONAL KIT CONTROPARTE
COUNTERPART **OPTIONAL KIT**
27.0938.0000



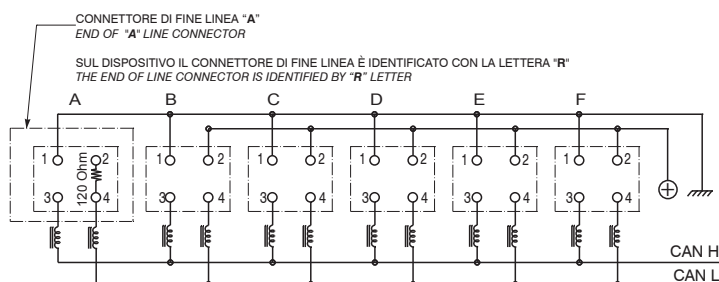
CAPPUCCIO DI PROTEZIONE
RUBBER PROTECTION **CAP**
20.0108.0006



POSSIBILITÀ DI FISSARE IL DISPOSITIVO
TRAMITE FASCETTE A STRAPPO
POSSIBILITY TO FIX THE DEVICE
THROUGH TIES



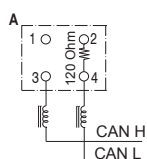
SCHEMA ELETTRICO WIRING DIAGRAM



COLLEGAMENTI ELETTRICI CONNETTORE DI FINE LINEA "A" END OF "A" LINE CONNECTOR CIRCUIT

COLLEGAMENTO 1 CONNECTION 1

SENZA TERMINAZIONI
FUNZIONE HI - LOW.
WITHOUT END OF LINE CONNECTORS
HI - LOW FUNCTION.

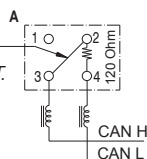


COLLEGARE IL PIN3 ALLA FUNZIONE
HI, IL PIN4 ALLA FUNZIONE LOW.
CONNECT PIN3 TO HI FUNCTION,
PIN4 TO LOW FUNCTION.

COLLEGAMENTO 2 CONNECTION 2

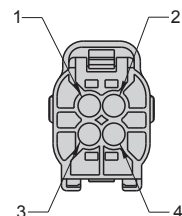
TERMINAZIONE DI FINE LINEA.
END OF LINE CONNECTOR.

PONTE DA EFFETTUARE
SULLA CONTROPARTE.
BRIDGE ON COUNTERPART.



PER LA TERMINAZIONE DI LINEA PONTICELLARE
IL PIN2 CON IL PIN3 DELLA CONTROPARTE.
FOR THE END OF LINE CONNECTION JUMP PIN2
TO PIN3 OF THE COUNTERPART.

DETTAGLIO CONTROPARTE COUNTERPART DETAIL



• Scatole prese rimorchio

Dimensioni contenute per facilitare l'installazione.
Resistenza agli urti ed agli agenti chimici.
Conessioni elettriche a tenuta IP54.
Protezione dei carichi AUX tramite Mini-Fusibili.
Permette un'alta flessibilità nella progettazione ed esecuzione dell'impianto elettrico.

• Trailer socket boxes

Compact dimensions to make the installation easier.
Shock and chemical agents resistance.
Electrical connection, sealing IP54.
AUX loads protection by minifuses.
It allows high flexibility in planning and execution of the electrical system

• Prescrizione

Posizionare il dispositivo sulla struttura secondo asse X orizzontale o inclinato nella direzione (+);
Fissare il dispositivo alla struttura mediante viti M8, rosette piano lato scatola di derivazione, rosette grower lato supporto scatola e dadi M8; coppia di serraggio: $10 \pm 1 \text{ Nm}$;
Coppia di serraggio tappo filettato per fusibili: $1.2 \pm 0.2 \text{ Nm}$;
Stato di fornitura: tappi di protezione a perdere montati sui connettori;
tappo a tenuta montato sul connettore.

• Instructions

Fit the device on the structure according to the horizontal X axis or tilted in the direction (+);
Lock the device to the structure by M8 screws.
Use flat washers on the side of the junction box and grower type washers on the opposite side.
Use M8 nuts; tightening torque: $10 \pm 1 \text{ Nm}$;
Tightening torque of threaded plug for fuses: $1.2 \pm 0.2 \text{ Nm}$;
Supply state: no-returnable protection plugs fitted on connectors;
sealed plug fitted on connector.



20.0104.0000

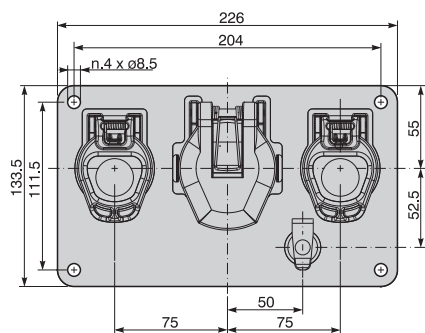
15 poli / 7 poli N / 7 poli S
15 poles / 7 poles N / 7 poles S



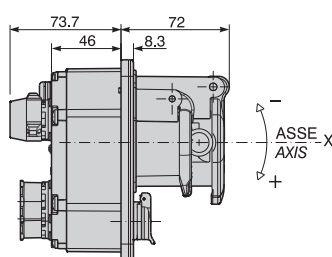
Kit di connessione controparte
Din 7 vie
Mating connection kit
7 ways Din
27.0856.0000



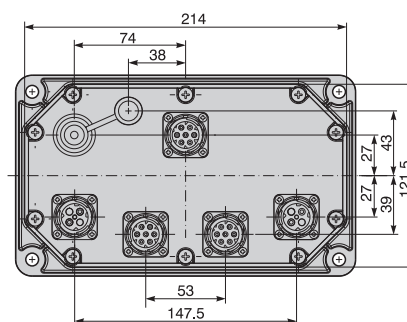
Kit di connessione controparte
Din 4 vie
Mating connection kit
4 ways Din
27.0860.0000



VISTA ANTERIORE
FRONT VIEW



VISTA DI LATO
SIDE VIEW



VISTA POSTERIORE
REAR VIEW

- Disposizione prese rif. A-B-C secondo ISO 4009:2000;
- Tensione nominale di funzionamento 24V;
- Tensione limite di funzionamento 12V ÷ 32V
- Corrente sui contatti: vedi schema di collegamento;
- Temperatura limite di esercizio - 30°C ÷ + 60°C [- 22°F ÷ +140°F];
- Temperatura limite di funzionamento - 40°C ÷ + 85°C [- 40°F ÷ +185°F];
- Grado di protezione alla polvere e alla pioggia IP54 secondo CEI EN 60529:1992;
- Resistenza alle vibrazioni 50m/s² secondo ISO 4091:2003;
- Resistenza alla nebbia salina 300 ore secondo ISO 4091:2003.

- *Sockets lay-out ref. A-B-C as per ISO 4009:2000;*
- *Functioning rated voltage 24V;*
- *Functioning limit voltage 12V ÷ 32V ;*
- *Current on the contacts: see connection diagram;*
- *Working limit temperature - 30°C ÷ + 60°C [- 22°F ÷ +140°F];*
- *Functioning limit temperature - 40°C ÷ + 85°C [- 40°F ÷ +185°F];*
- *Protection degree from dust and rain IP54 as per CEI EN 60529:1992;*
- *Vibration resistance 50m/s² as per ISO 4091:2003;*
- *Salt spray resistance: 300 h as per ISO 4091: 2003.*

A:

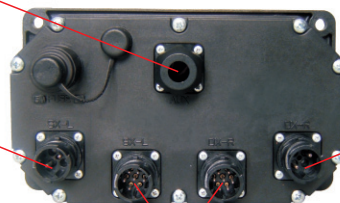
- presa 7P / 24V Supplementare secondo ISO 3731:2003;
- *additional 7P/24V socket as per ISO 3731:2003;*



C:

- presa 7P / 24V Normale secondo ISO 1185:2003;
- *standard 7P/24V socket as per ISO 1185:2003;*

- connettore 7P geometria esterna secondo DIN 72585-1:1996 colore grigio accoppiabile con connettore portafemmine 27.0856.0000
- *Grey colour 7P connector (exterior geometry as per DIN 72585-1:1996) that can be coupled with the male connector 27.0856.0000*



B:

- presa 15P / 24V secondo ISO 12098/2004;
- *15P/24V socket as per ISO 12098/2004;*

- presa 2P / 24V secondo ISO 4165:2001;
- *2P/24V socket as per ISO 4165:2001;*

- connettore 2P accoppiabile con 27.0860.0000
- *2P connector to be coupled with 27.0860.0000*

- connettore 2P accoppiabile con 27.0860.0000
- *2P connector to be coupled with 27.0860.0000*

- connettore 7P geometria esterna secondo DIN 72585-1:1996 colore nero accoppiabile con connettore portafemmine 27.0856.0000
- *Black colour 7P connector (exterior geometry as per DIN 72585-1:1996) that can be coupled with the male connector 27.0856.0000*

SCHEMA DI COLLEGAMENTO secondo ISO 12098-2004 - CONNECTION DIAGRAM according to ISO 12098-2004

FUNZIONE FUNCTION	ASSORBIMENTO MAX PER LINEA MAX ABSORPTION PER LINE	ANTERIORE - FRONT				POSTERIORE - REAR							
		PRESA 15 POLI 15 P SOCKET	PRESA 7 POLI N 7 P N SOCKET	PRESA 7 POLI S 7 P S SOCKET	PRESA 2 POLI SUPPLEMENTARI 2 P ADDITIONAL SOCKET	ATTACCHI LAM. PRESA 15 POLI 15 P SOCKET BLADE CONNECTIONS	ATTACCHI LAM. PRESA 7 POLI N 7 P N SOCKET BLADE CONNECTIONS	ATTACCHI LAM. PRESA 7 POLI S 7 P S SOCKET BLADE CONNECTIONS	CONNETT. 2 POLI DIN FANALE POSTERIORE LH 2 P CONNECTOR DIN REAR LH LAMP	CONNETT. 7 POLI DIN FANALE POSTERIORE LH 7 P CONNECTOR DIN REAR LH LAMP	CONNETT. 2 POLI DIN FANALE POSTERIORE RH 2 P CONNECTOR DIN REAR RH LAMP	CONNETT. 7 POLI DIN FANALE POSTERIORE RH 7 P CONNECTOR DIN REAR RH LAMP	CONNETT. 7 POLI DIN AUSILIARIO 7 P CONNECTOR DIN AUXILIARY
	24V	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS
LUCE INDICATORE DIREZIONE LH LH TURN INDICATOR LIGHT	21W	1	3/L			1	3			4			
LUCE INDICATORE DIREZIONE RH RH TURN INDICATOR LIGHT	21W	2	5/R			2	5					4	
LUCE RETRONEBBIA REAR FOG LAMP	42W	3		7/ZEN		3		7		2	2	2	
MASSA COMUNE PER CONTATTI PRESA 15 POLI POS. DA 1 A 3 E DA 5 A 12 COMMON GROUND FOR 15 P SOCKET CONTACTS POS. FROM 1 TO 3 AND FROM 5 TO 12	555W (1)	4	1/31	1/31	2	4 (*)	1 (*)	1 (*)	2 (*)	1 (*)	2 (*)	1 (*)	1 (*)
LUCI DI POS. POSTERIORI LH. LUCI MARKER LH E LUCE TARGA POST. LH REAR LEFT TAIL LIGHTS. LEFT MARKER LAMPS AND REAR LEFT NUMBER PLATE LIGHT.	60W (1)	5	2/58			5	2		1	6 7			
LUCI DI POS. POSTERIORI RH. LUCI MARKER RH E LUCE TARGA POST. RH REAR RIGHT TAIL LIGHTS. RIGHT MARKER LAMPS AND REAR RIGHT NUMBER PLATE LIGHT.	60W (1)	6	6/58R			6	6				1	6 7	
LUCI DI STOP BRAKE LIGHTS	84W	7	4/54			7	4			3		3	
LUCE DI RETROMARCIA REVERSING LIGHT	42W	8		3/L		8		3		5		5	
POTENZA SUPPLEMENTARE PERMANENTE (+24V) ADDITIONAL POWER (+24V)	288W	9		4/54	1 (#)	9		4					7
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		10				10							2
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		11	7/ZEN			11							3
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		12		6/58R		12							4
FUNZIONE NON UTILIZZATA FUNCTION NOT USED		13				13							
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		14		2/58		14							5
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		15		5/R		15							6

(1) Assorbimento max linea con: 267W per lampade; 288W per positivo presa 2P - Limit absorption line with: 267W lamp; 288W for positive 2P socket

(2) Assorbimento max linea con: 10W per luci di posizione; 10W per luce targa; 10W per luce marker fanale posteriore; 30W per luci marker laterali semirimorchio
Limit absorption line with: 10W for parking lights; 10W for number plate light; 10W for marker rear lamp; 30W for semi trailer side marker lamps.

(*) Uscite massa protette da fusibile F1; - Ground output protected by F1 fuse;

(#) Uscita positivo presa 2P protetta da fusibile F2; - Positive output 2P socket protected by F2 fuse;

• Scatole prese rimorchio

Dimensioni contenute per facilitare l'installazione.
Resistenza agli urti ed agli agenti chimici.
Connessioni elettriche a tenuta IP54.
Protezione dei carichi AUX tramite Mini-Fusibili.
Permette un'alta flessibilità nella progettazione ed esecuzione dell'impianto elettrico.

• Trailer socket boxes

*Compact dimensions to make the installation easier.
Shock and chemical agents resistance.
Electrical connection, sealing IP54.
AUX loads protection by minifuses.
It allows high flexibility in planning and execution of the electrical system*

• Prescrizione

Posizionare il dispositivo sulla struttura secondo asse X orizzontale o inclinato nella direzione (+);
Fissare il dispositivo alla struttura mediante viti M8, rosette piano lato scatola di derivazione, rosette grower lato supporto scatola e dadi M8; coppia di serraggio: $10 \pm 1 \text{ Nm}$;
Coppia di serraggio tappo filettato per fusibili: $1.2 \pm 0.2 \text{ Nm}$;
Stato di fornitura: tappi di protezione a perdere montati sui connettori; tappo a tenuta montato sul connettore.

• Instructions

*Fit the device on the structure according to the horizontal X axis or tilted in the direction (+);
Lock the device to the structure by M8 screws.
Use flat washers on the side of the junction box and grower type washers on the opposite side.
Use M8 nuts; tightening torque: $10 \pm 1 \text{ Nm}$;
Tightening torque of threaded plug for fuses: $1.2 \pm 0.2 \text{ Nm}$;
Supply state: non-returnable protection plugs fitted on connectors; sealed plug fitted on connector.*



20.0106.0000

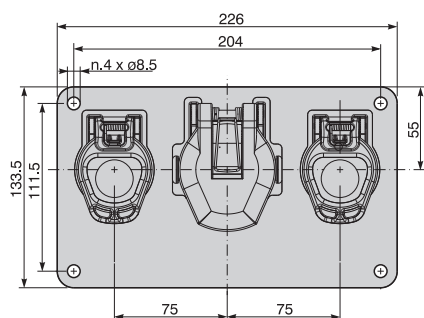
15 poli / 7 poli N / 7 poli S
15 poles / 7 poles N / 7 poles S



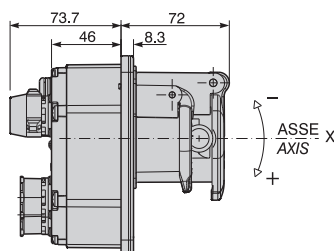
Kit di connessione controparte
Din 7 vie
Mating connection kit
7 ways Din
27.0856.0000



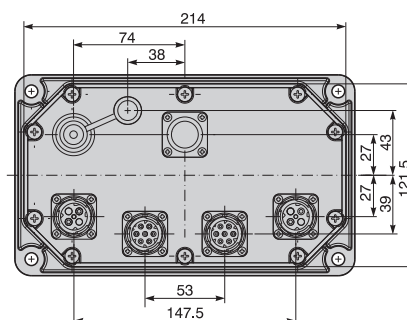
Kit di connessione controparte
Din 4 vie
Mating connection kit
4 ways Din
27.0860.0000



VISTA ANTERIORE
FRONT VIEW



VISTA DI LATO
SIDE VIEW



VISTA POSTERIORE
REAR VIEW

- Disposizione prese rif. A - B - C secondo ISO 4009:2000;
- Tensione nominale di funzionamento 24V;
- Tensione limite di funzionamento 12V ÷ 32V
- Corrente sui contatti: vedi schema di collegamento;
- Temperatura limite di esercizio - 30°C ÷ +60°C (- 22°F ÷ +140°F);
- Temperatura limite di funzionamento - 40°C ÷ +85°C (- 40°F ÷ +185°F);
- Grado di protezione alla polvere e alla pioggia IP54 secondo CEI EN 60529:1992;
- Resistenza alle vibrazioni 50m/s² secondo ISO 4091:2003;
- Resistenza alla nebbia salina 300 ore secondo ISO 4091:2003.

- Sockets lay-out ref. A - B - C as per ISO 4009:2000;
- Functioning rated voltage 24V;
- Functioning limit voltage 12V ÷ 32V ;
- Current on the contacts: see connection diagram;
- Working limit temperature - 30°C ÷ +60°C (- 22°F ÷ +140°F);
- Functioning limit temperature - 40°C ÷ +85°C (- 40°F ÷ +185°F);
- Protection degree from dust and rain IP54 as per CEI EN 60529:1992;
- Vibration resistance 50m/s² as per ISO 4091:2003;
- Salt spray resistance: 300 h as per ISO 4091: 2003.

A:

- presa 7P / 24V Supplementare secondo ISO 3731:2003;
- additional 7P/24V socket as per ISO 3731:2003;



C:

- presa 7P / 24V Normale secondo ISO 1185:2003;
- standard 7P/24V socket as per ISO 1185:2003;

B:

- presa 15P / 24V secondo ISO 12098/2004;
- 15P/24V socket as per ISO 12098/2004;

- connettore 2P accoppiabile con 27.0860.0000
- 2P connector to be coupled with 27.0860.000



- connettore 2P accoppiabile con 27.0860.0000
- 2P connector to be coupled with 27.0860.000

- connettore 7P geometria esterna secondo DIN 72585-1:1996 colore nero accoppiabile con connettore portafemmine 27.0856.0000
- Black colour 7P connector (exterior geometry as per DIN 72585-1:1996) that can be coupled with the male connector 27.0856.0000

SCHEMA DI COLLEGAMENTO secondo ISO 12098-2004 - CONNECTION DIAGRAM according to ISO 12098-2004

FUNZIONE FUNCTION	ASSORBIMENTO MAX PER LINEA MAX ABSORPTION PER LINE	ANTERIORE - FRONT				POSTERIORE - REAR							
		PRESA 15 POLI 15 P SOCKET	PRESA 7 POLI N 7 P N SOCKET	PRESA 7 POLI S 7 P S SOCKET		ATTACCHI LAM. PRESA 15 POLI 15 P SOCKET BLADE CONNECTIONS	ATTACCHI LAM. PRESA 7 POLI N 7 P N SOCKET BLADE CONNECTIONS	ATTACCHI LAM. PRESA 7 POLI S 7 P S SOCKET BLADE CONNECTIONS	CONNETT. 2 POLI DIN FANALE POSTERIORE LH 2 P CONNECTOR DIN REAR LH LAMP	CONNETT. 7 POLI DIN FANALE POSTERIORE LH 7 P CONNECTOR DIN REAR LH LAMP	CONNETT. 2 POLI DIN FANALE POSTERIORE RH 2 P CONNECTOR DIN REAR RH LAMP	CONNETT. 7 POLI DIN FANALE POSTERIORE RH 7 P CONNECTOR DIN REAR RH LAMP	
	24V	POS	POS	POS		POS	POS	POS	POS	POS	POS	POS	
LUCE INDICATORE DIREZIONE LH LH TURN INDICATOR LIGHT	21W	1	3/L			1	3			4			
LUCE INDICATORE DIREZIONE RH RH TURN INDICATOR LIGHT	21W	2	5/R			2	5			2		4	
LUCE RETRONEBBIA REAR FOG LAMP	42W	3		7/ZEN		3		7		1	2	2	
MASSA COMUNE PER CONTATTI PRESA 15 POLI POS. DA 1 A 3 E DA 5 A 12 COMMON GROUND FOR 15 P SOCKET CONTACTS POS. FROM 1 TO 3 AND FROM 5 TO 12	267W	4	1/31	1/31		4	1	1	2	6		1	
LUCI DI POS. POSTERIORI LH. LUCI MARKER LH E LUCE TARGA POST. LH REAR LEFT TAIL LIGHTS. LEFT MARKER LAMPS AND REAR LEFT NUMBER PLATE LIGHT.	60W (1)	5	2/58			5	2		1		1	6	
LUCI DI POS. POSTERIORI RH. LUCI MARKER RH E LUCE TARGA POST. RH REAR RIGHT TAIL LIGHTS. RIGHT MARKER LAMPS AND REAR RIGHT NUMBER PLATE LIGHT.	60W (1)	6	6/58R			6	6			3		3	
LUCI DI STOP BRAKE LIGHTS	84W	7	4/54			7	4			5		5	
LUCE DI RETROMARCIA REVERSING LIGHT	42W	8		3/L		8		3					
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		10				10							
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		11				11							
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		12				12							
FUNZIONE NON UTILIZZATA FUNCTION NOT USED		13				13							
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		14				14							
FUNZIONE DA DEFINIRE MAX 10A FUNCTION TO BE DEFINED MAX 10A		15				15							

(1) Assorbimento max linea con: 10W per luci di posizione; 10W per luce targa; 10W per luce marker fanale posteriore; 30W per luci marker laterali semirimorchio.
Limit absorption of the line with: 10W for parking lights; 10W for number plate light; 10W for marker rear lamp; 30W for semi trailer side marker lamps.





24

SCATOLE PORTAFUSIBILI

FUSE BOXES



• Scatole portafusibili

Base in nylon vetro nero
Coperchio in metacrilato trasparente
Fissaggio a vite
Contatti fissi in ottone stagnato
Contatti elastici in bronzo fosforo
Senza fusibili

• Fuse boxes

Base made of black nylon charged with glass fibres
Cover made of transparent methacrylate
Fixing by screws
Fixed contacts made of tin-plated brass
Elastic contacts made of phosphor bronze
Without fuses



24.010.106
SERIE/SERIES 6.35
FASTON PONTE
BRIDGE HEAD



FUSIBILI/FUSES

P/N	CARICO MAX MAX LOAD	L mm	COLORE COLOUR
30.14.03352	5A	25	GIALLO - YELLOW
30.14.02297	8A	25	NERO - BLACK
30.14.02702	16A	25	VERDE - GREEN
30.14.02467	25A	25	NOCCIOLA LIGHT BROWN
30.14.02766	40A	25	ROSSO - RED

NORMA/REGULATION DIN 72581

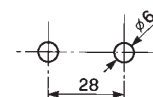
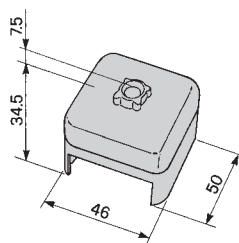
P/N	CARICO MAX MAX LOAD	L mm	COLORE COLOUR
30.14.03950	8A	25	BIANCO - WHITE
30.14.03951	16A	25	ROSSO - RED
30.14.03952	25A	25	BLU - BLUE

24.045.000

2 vie
2 ways



24.045.200

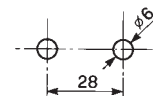
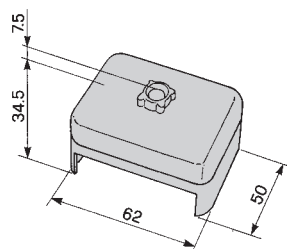


24.046.000

4 vie
4 ways



24.046.200

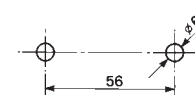
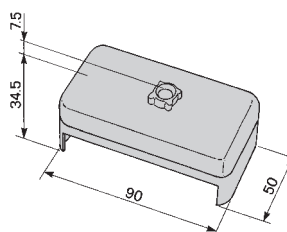


24.047.000

6 vie
6 ways

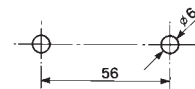
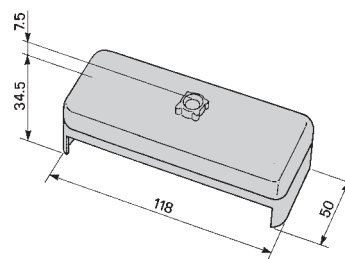


24.047.200

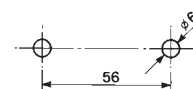
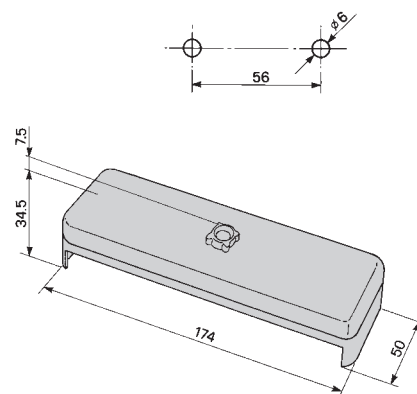


24.048.0008 vie
8 ways

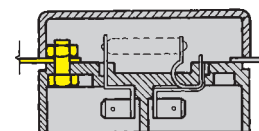
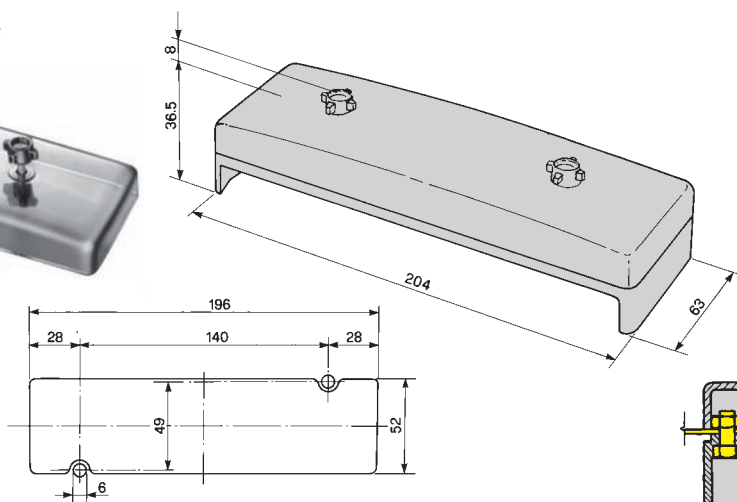
24.048.200

**24.051.000**12 vie
12 ways

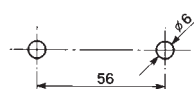
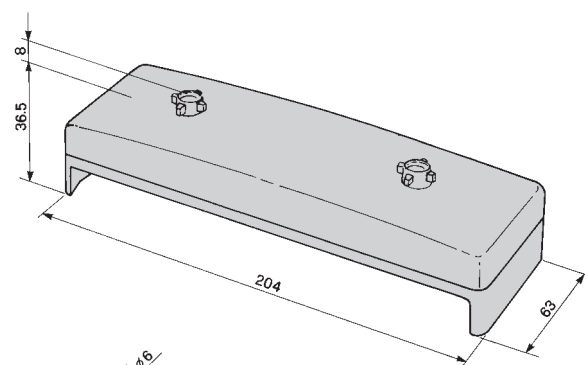
24.051.200

**24.145.000**14 vie con fissaggio a vite
14 ways with fixing by screws

24.145.200

**24.150.000**14 vie
14 ways

24.150.200

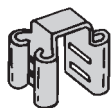


• Scatole portafusibili

Base in nylon vetro nero
Coperchio in metacrilato trasparente
Fissaggio a vite o a molle
Contatti fissi in ottone stagnato
Contatti elastici in bronzo fosforo
Senza fusibili

• Fuse boxes

Base made of black nylon
Cover made of transparent methacrylate
Fixing by screws or clips
Fixed contacts made of tin-plated brass
Elastic contacts made of phosphor bronze
Without fuses



24.010.106
SERIE/SERIES 6.35
FASTON PONTE
BRIDGE HEAD



FUSIBILI/FUSES

P/N	CARICO MAX MAX LOAD	L mm	COLORE COLOUR
30.14.03352	5A	25	GIALLO - YELLOW
30.14.02297	8A	25	NERO - BLACK
30.14.02702	16A	25	VERDE - GREEN
30.14.02467	25A	25	NOCCIOLA LIGHT BROWN
30.14.02766	40A	25	ROSSO - RED

NORMA/REGULATION DIN 72581

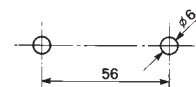
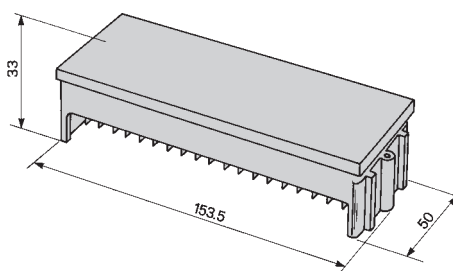
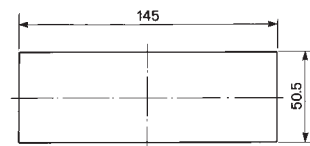
P/N	CARICO MAX MAX LOAD	L mm	COLORE COLOUR
30.14.03950	8A	25	BIANCO - WHITE
30.14.03951	16A	25	ROSSO - RED
30.14.03952	25A	25	BLU - BLUE

24.157.000

10 vie con fissaggio a molle su lamiera $\pm 0,2$ mm
10 ways with fixing by clips on iron plate $\pm 0,2$ mm



24.138.201



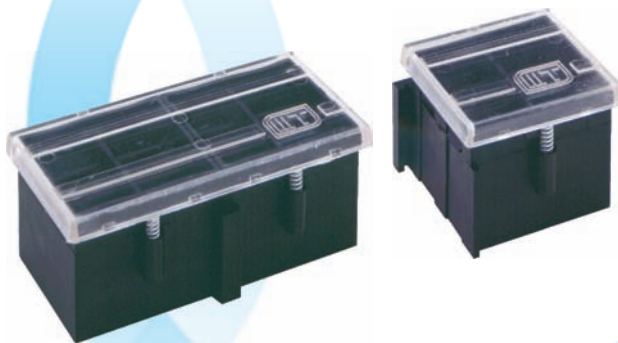
• Morsetterie portafusibili

Corpo in nylon
Coperchio in metacrilato incolore
Contatti faston 6,35 mm.
Fusibili lamellari

• Fuse holders

Base made of nylon
Cover made of colourless metacrylate
Faston contacts 6,35 mm.
Blade fuses

△ = diodo/diode



Fusibili di tipo lamellare / Blade fuses

P/N	CARICO MAX MAX LOAD	COLORE COLOUR
30.14.04513	3A	VIOLA - PURPLE
30.14.04514	4A	ROSA - PINK
30.14.04515	5A	NOCCIOLA LIGHT BROWN
30.14.04516	7,5A	MARRONE - BROWN
30.14.04517	10A	ROSSO - RED
30.14.04518	15A	BLU - BLUE
30.14.04519	20A	GIALLO - YELLOW
30.14.04520	25A	BIANCO - WHITE
30.14.04521	30A	VERDE - GREEN



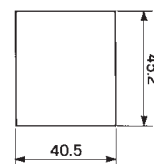
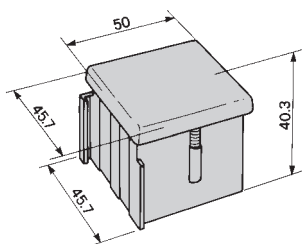
△ Diodi di tipo lamellare / Blade diodes

P/N	CARICO MAX MAX LOAD
30.14.04774	1A
30.14.04912	3A



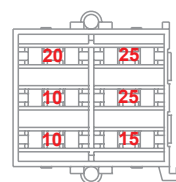
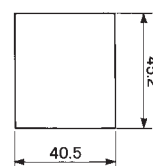
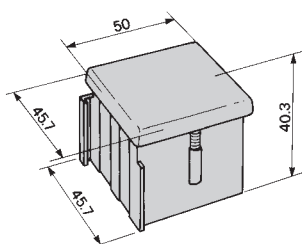
24.222.000

6 vie
6 ways



24.0272.0000

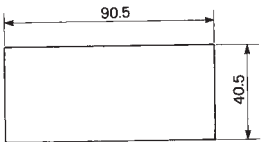
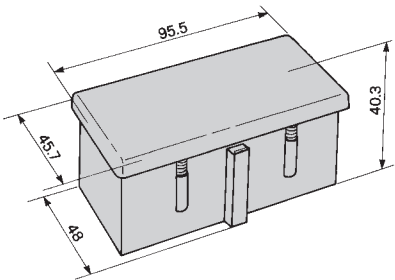
6 vie
6 ways



24.223.000

12 vie
12 ways

0060.0200



• Scatole portafusibili

Coperchio in polipropilene nero
Corpo in poliammide nero
Contatti in ottone stagnato
Guarnizione
Grado di protezione IP54

• Fuse boxes

Cover in black polypropylene
Housing made of black polyamide
Tin-plated brass contacts
Gasket
Sealing IP54

△ = diodo/diode

* = senza fusibile e senza contatti
without fuse and contacts



Fusibili di tipo lamellare / Blade fuses

P/N	CARICO MAX MAX LOAD	COLORE COLOUR
30.14.04513	3A	VIOLA - PURPLE
30.14.04514	4A	ROSA - PINK
30.14.04515	5A	NOCCIOLA LIGHT BROWN
30.14.04516	7,5A	MARRONE - BROWN
30.14.04517	10A	ROSSO - RED
30.14.04518	15A	BLU - BLUE
30.14.04519	20A	GIALLO - YELLOW
30.14.04520	25A	BIANCO - WHITE
30.14.04521	30A	VERDE - GREEN

△ Diodi di tipo lamellare / Blade diodes

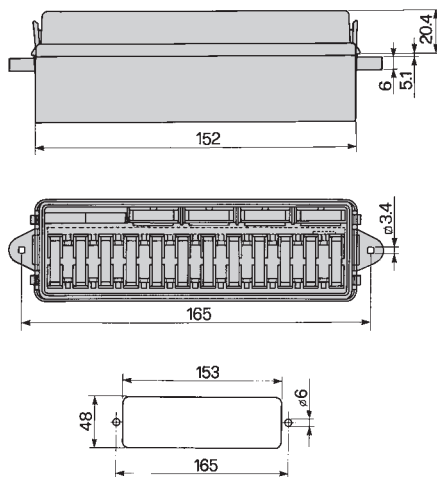
P/N	CARICO MAX MAX LOAD
30.14.04774	1A
30.14.04912	3A



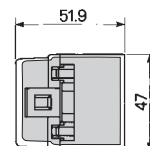
24.189.004

PONTE DI COLLEGAMENTO
CONNECTION BRIDGE

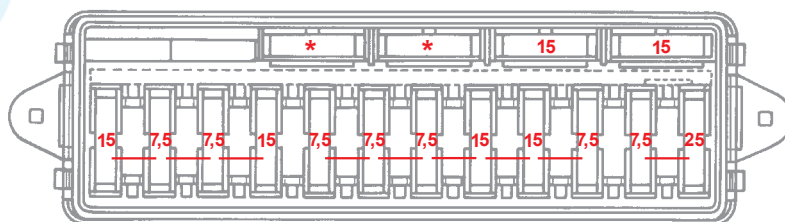
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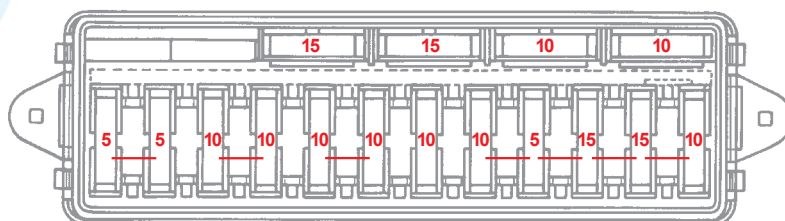
POSIZIONE
DI MONTAGGIO
MOUNTING SIDE



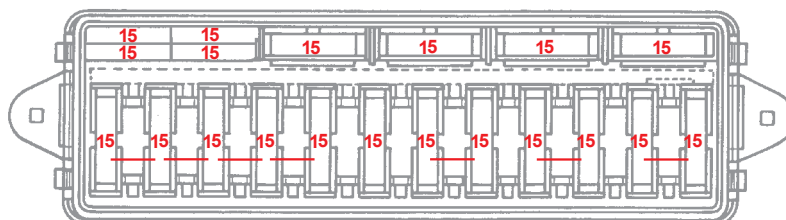
24.200.000



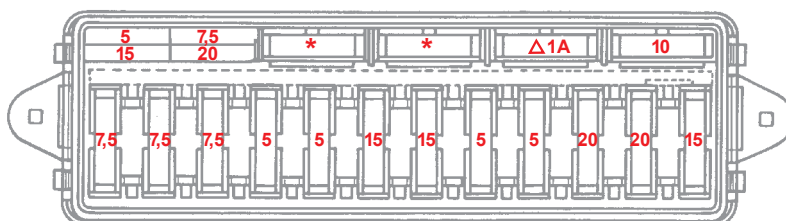
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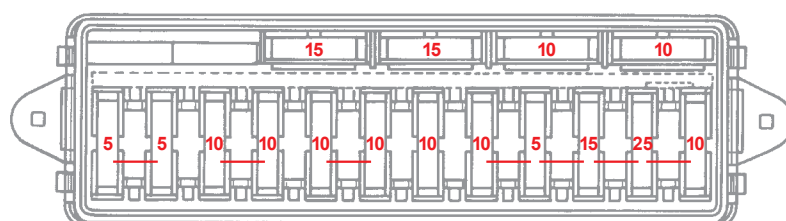
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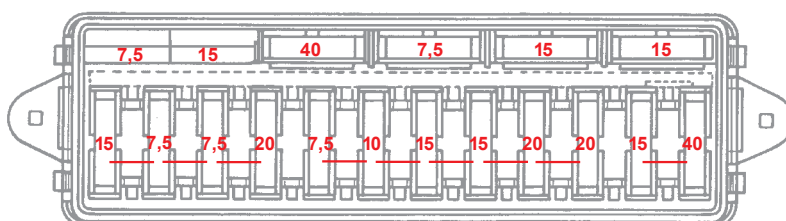
24.210.000



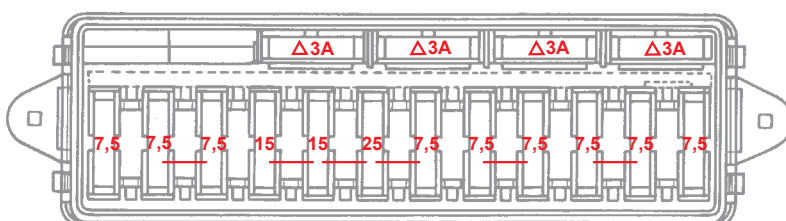
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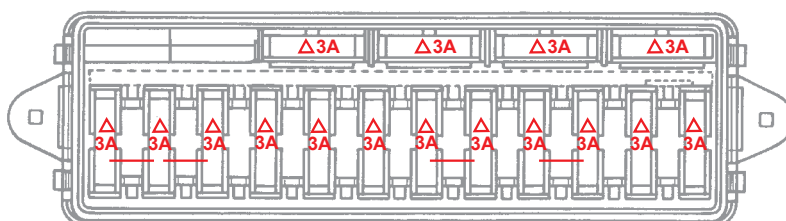
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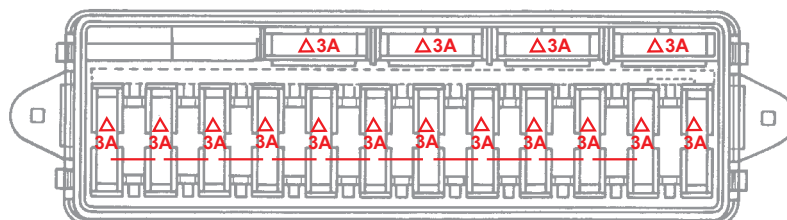
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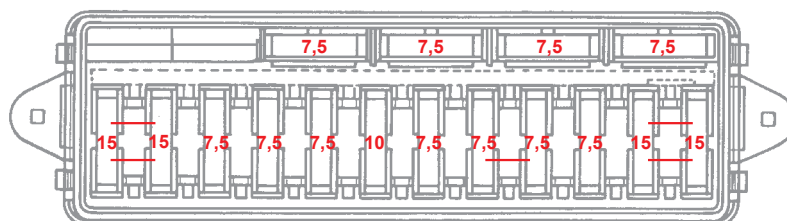
24.230.000



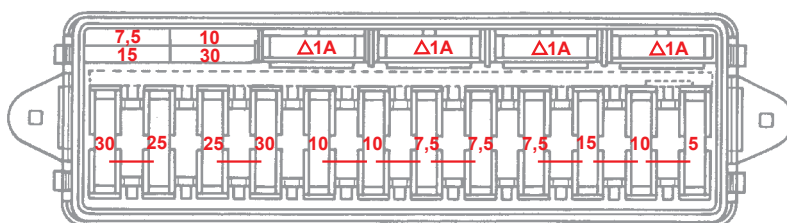
24.232 .000



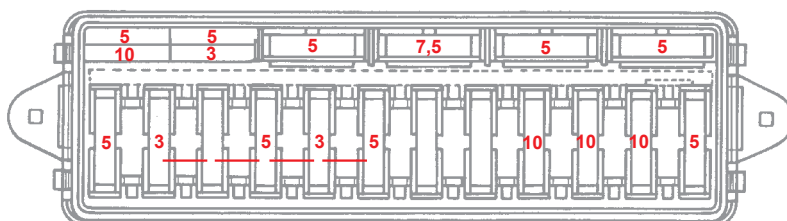
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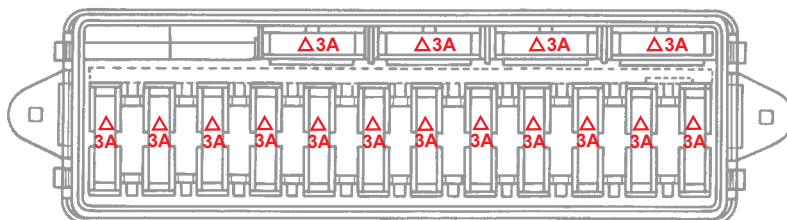
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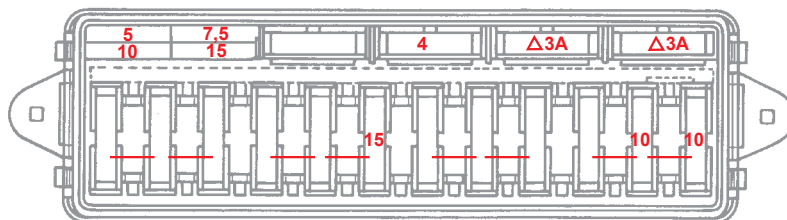
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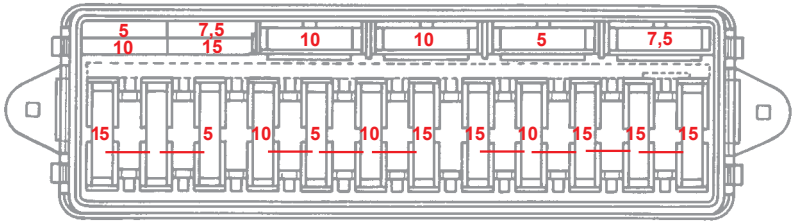


24.0260.0000



24.0269.0000





• Scatole portafusibili - intermittenze relè

Materiale corpo: poliammide

Materiale coperchio: polipropilene

Completa di fusibili (norma SAE J1284)

• Fuse boxes - electronic flashing units relays

Housing material: polyamide

Cover material: polypropylene

With fuses (SAE J1284 regulation)

△ = diodo / diode

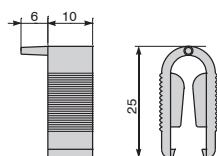


La scatola può essere equipaggiata con 28 fusibili del tipo lamellare o diodi dello stesso tipo più 4 fusibili o diodi di riserva. Nelle apposite morsettiere possono essere inseriti fino a 10 mini relè e una intermittenza a 6 uscite di tipo elettronico.

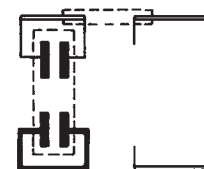
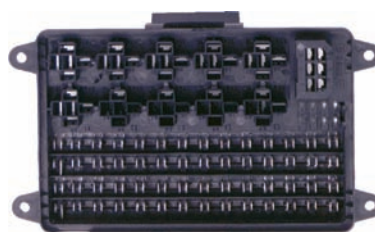
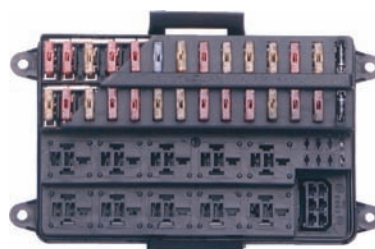
This box can be equipped with 28 blade fuses or diodes of the same type and 4 fuses or diodes in reserve. In the fuse boxes it is possible to fit in up to 10 mini relays and an electronic flashing unit with 6 outputs.



Fusibili di tipo lamellare
Blade fuses



24.236.031
Pinzetta levafusibili
Tool for fuses removal



P/N	CARICO MAX MAX LOAD	COLORE COLOUR
30.14.04513	3A	VIOLA - PURPLE
30.14.04514	4A	ROSA - PINK
30.14.04515	5A	NOCCIOLA LIGHT BROWN
30.14.04516	7,5A	MARRONE - BROWN
30.14.04517	10A	ROSSO - RED
30.14.04518	15A	BLU - BLUE
30.14.04519	20A	GIALLO - YELLOW
30.14.04520	25A	BIANCO - WHITE
30.14.04521	30A	VERDE - GREEN



È possibile mediante l'applicazione di un apposito "ponte" collegare fra di loro 2 fusibili evitando complicazioni nella realizzazione del cablaggio. Le connessioni fra il cablaggio e le uscite maschio (del tipo "faston" da 6,35 o "faston" da 9,2) possono essere realizzate utilizzando un connettore fornibile a parte.

Using a suitable "bridge" it is possible to connect 2 fuse avoiding any complication during wiring assembly. The connection between wiring and male outputs ("faston" 6,35 or "faston" 9,2 type) can be carried out by a connector, which is supplied separately.



24.189.004
Ponte di collegamento
Connection bridge



Diodi di tipo lamellare
Blade diodes



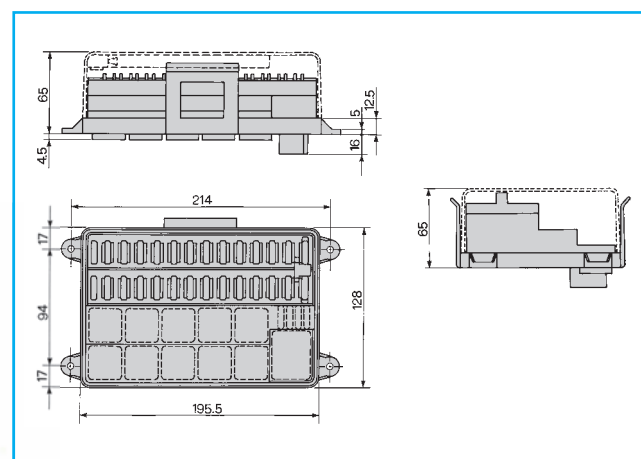
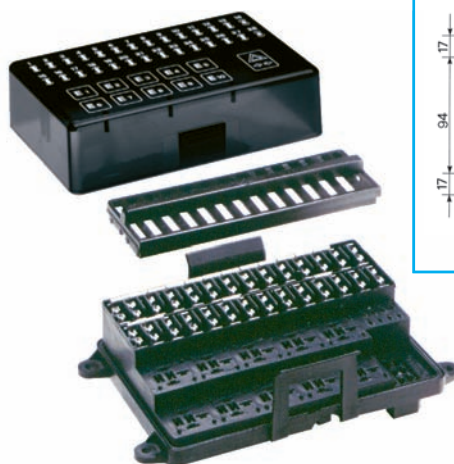
P/N	CARICO MAX MAX LOAD
30.14.04774	1A
30.14.04912	3A



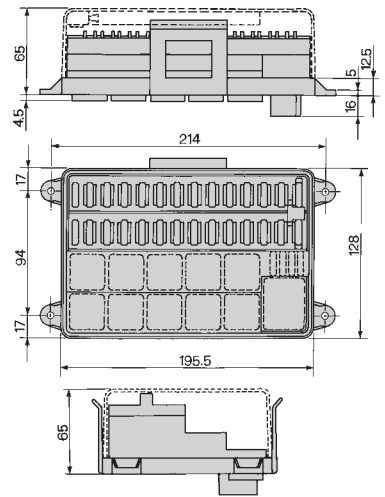
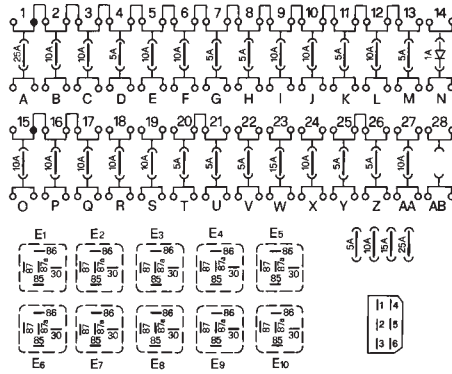
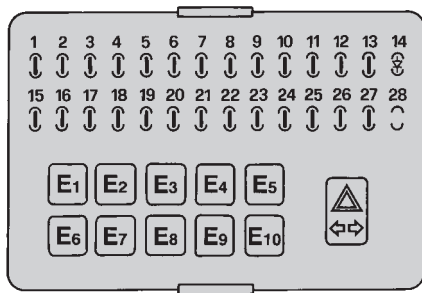
Intermittenze
Flashing units



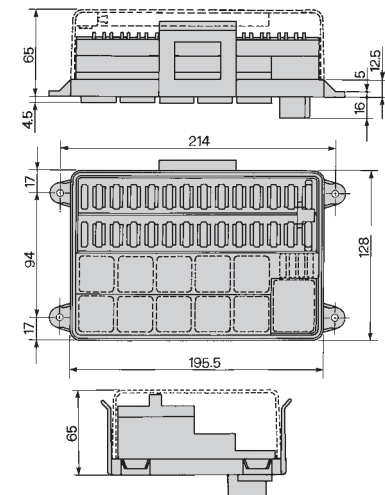
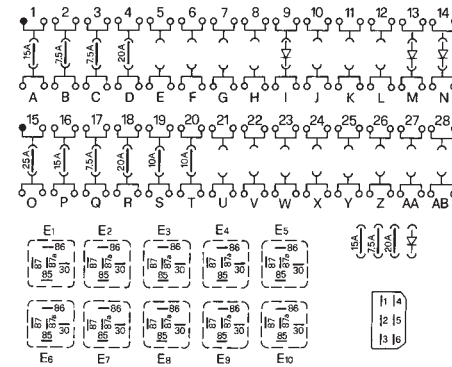
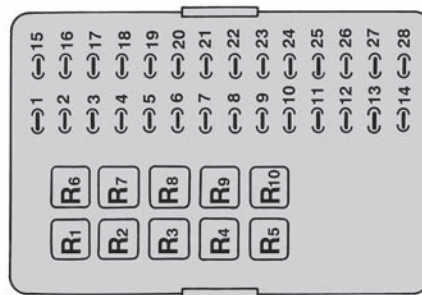
Relè
Relays



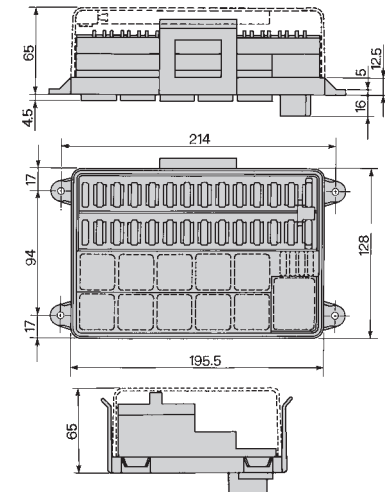
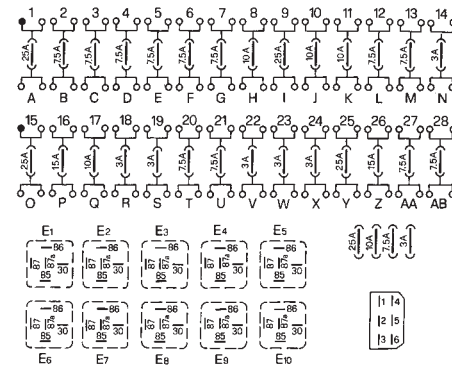
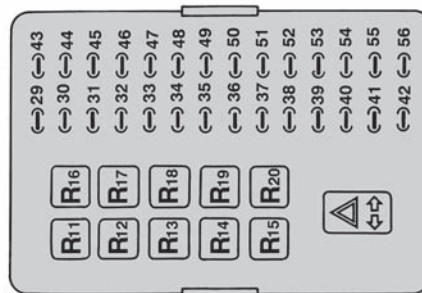
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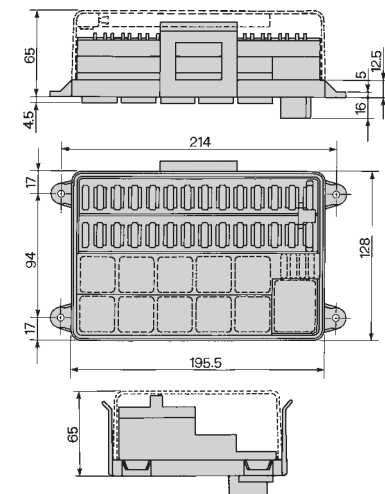
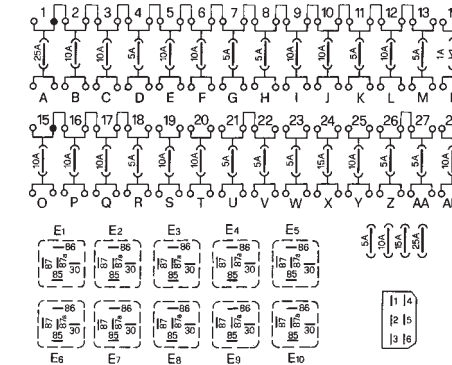
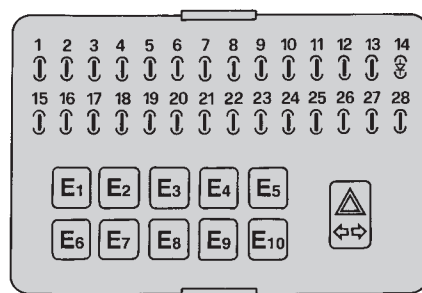
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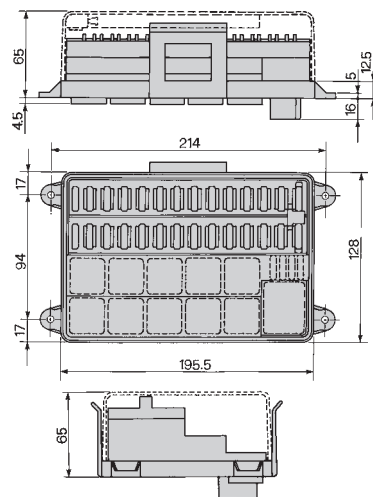
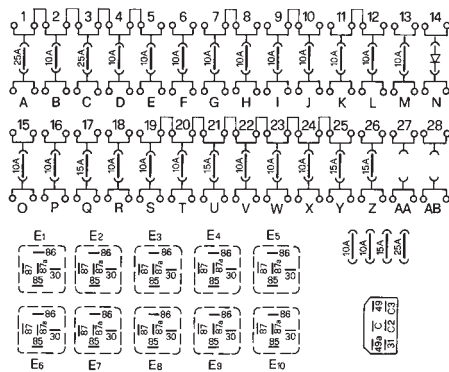
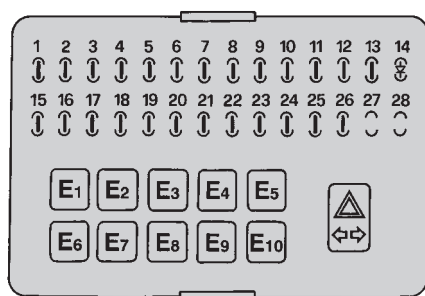
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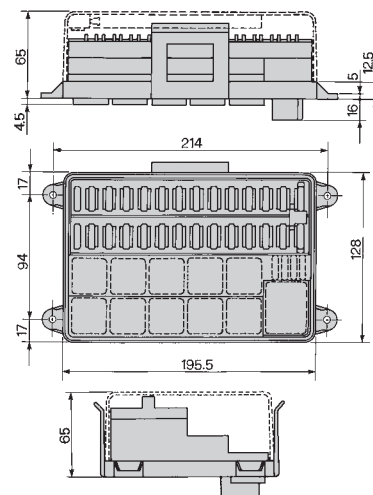
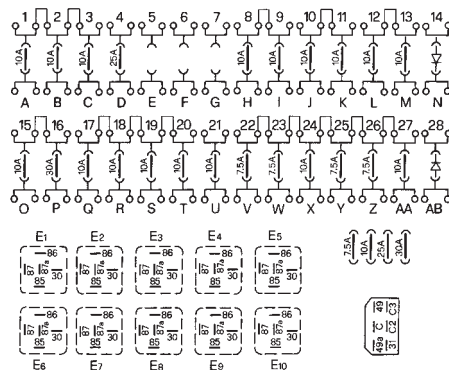
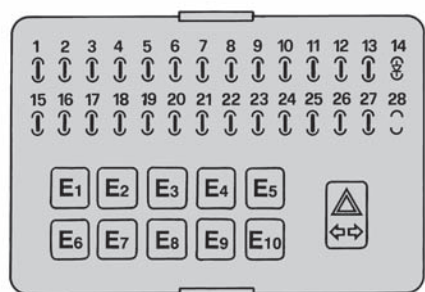
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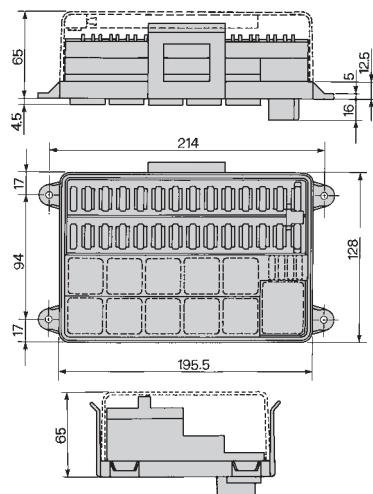
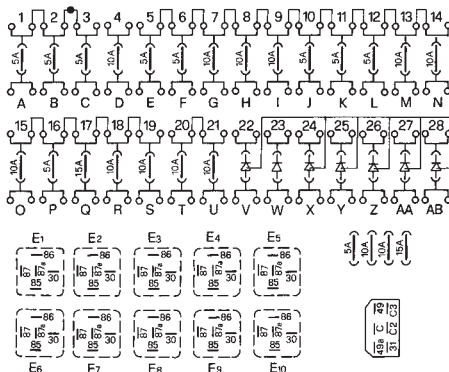
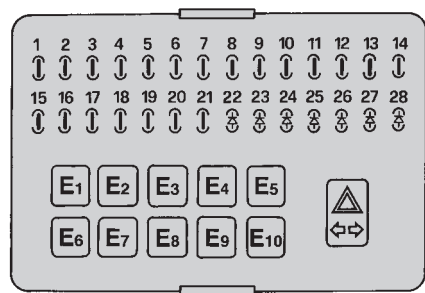
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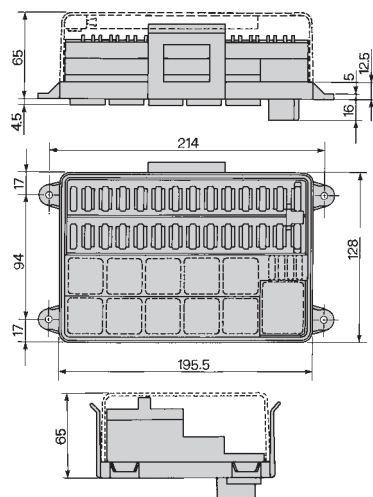
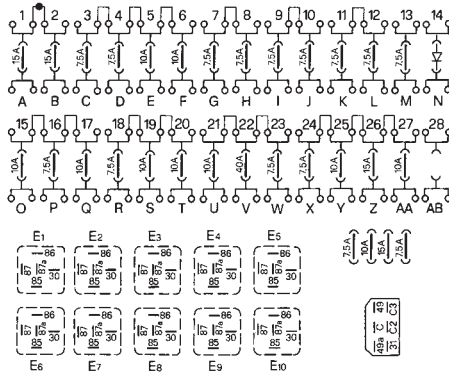
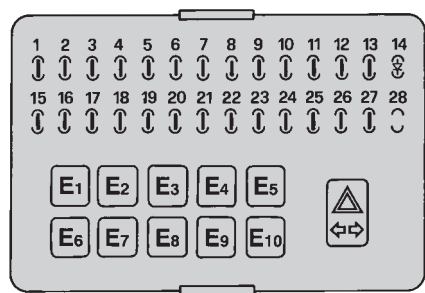
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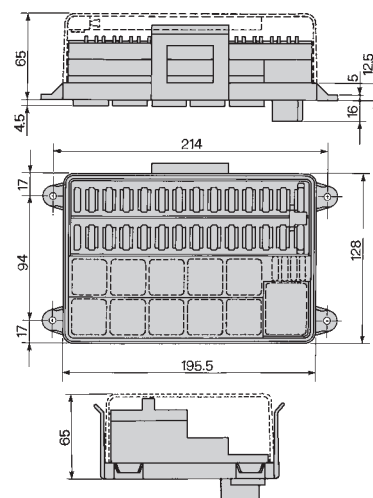
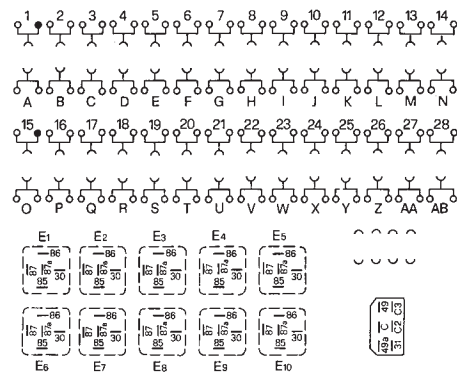
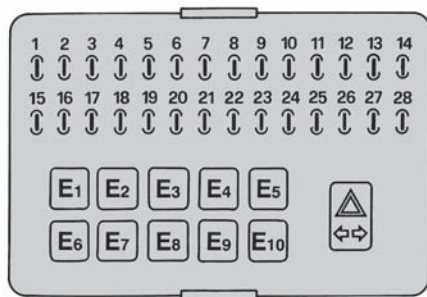
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24.213.000

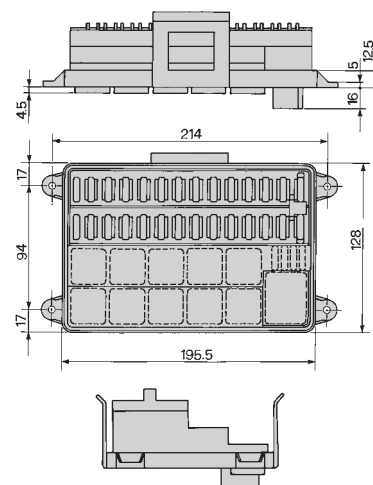
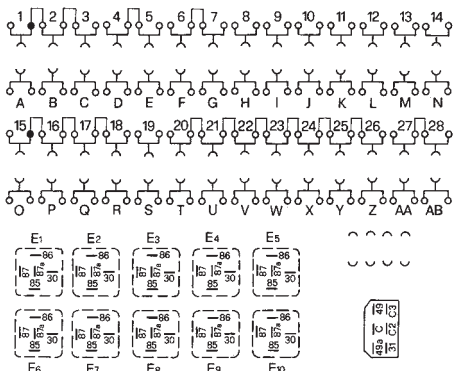


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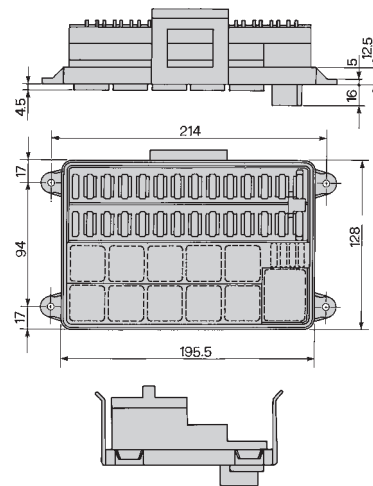
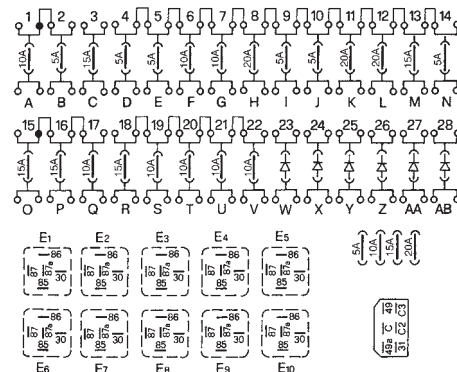
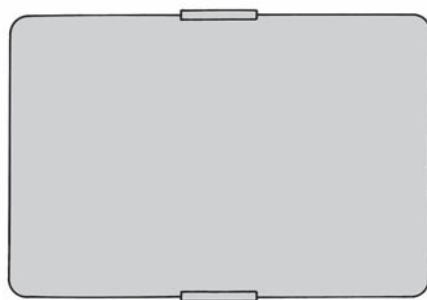


24.216.000

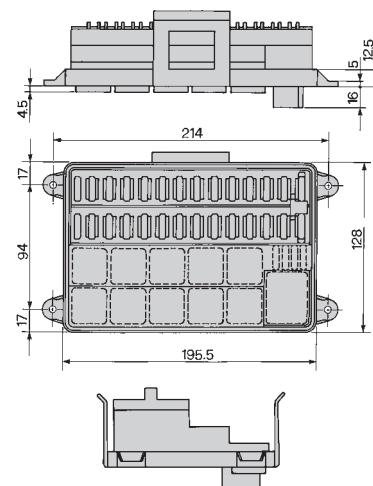
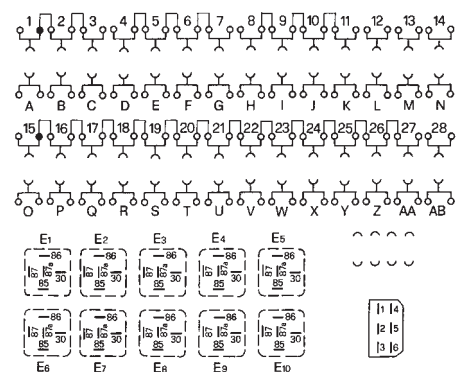
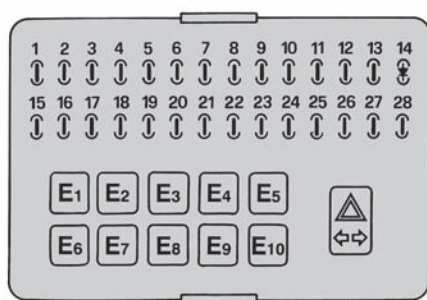
SENZA COPERCHIO
WITHOUT CAP



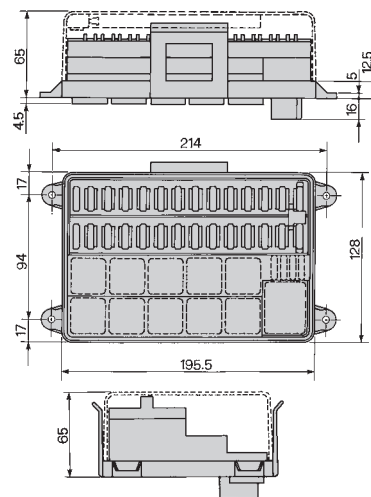
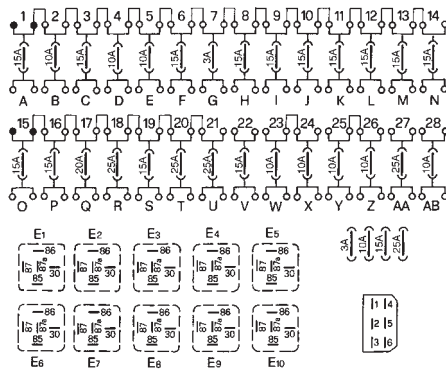
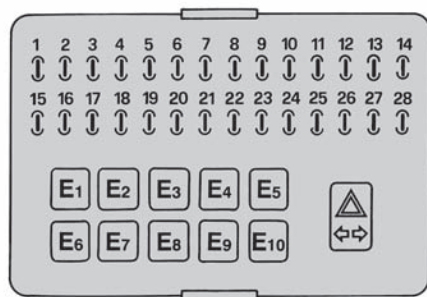
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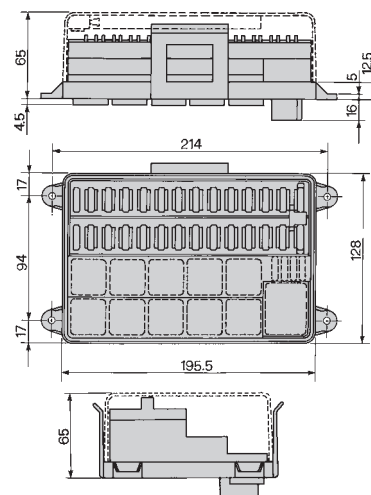
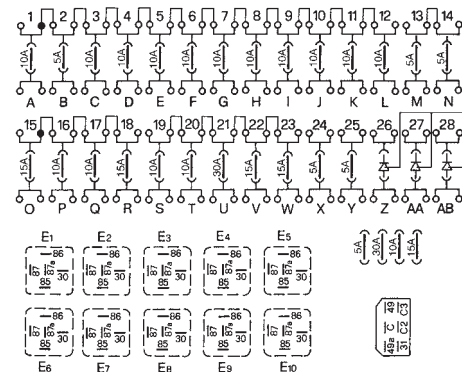
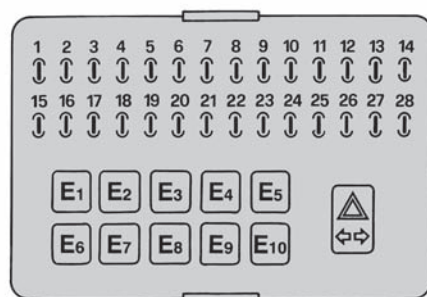
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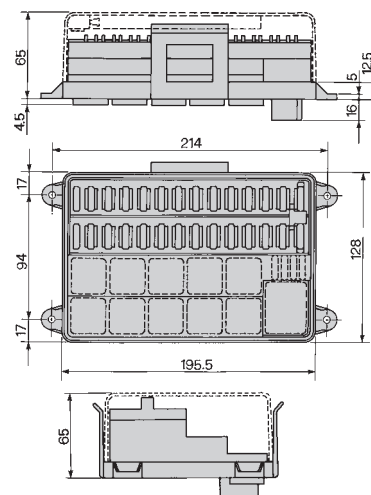
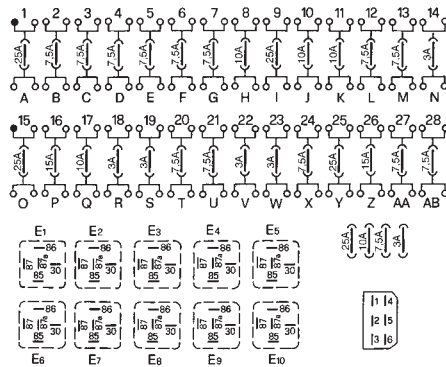
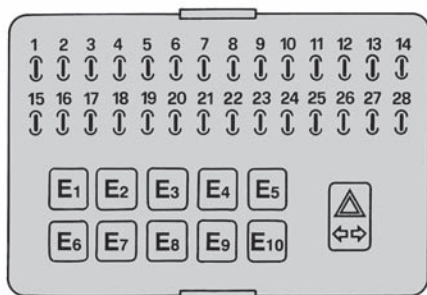
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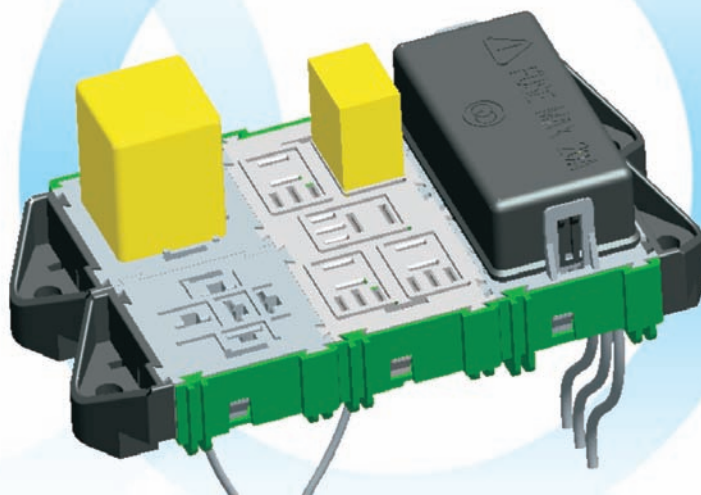
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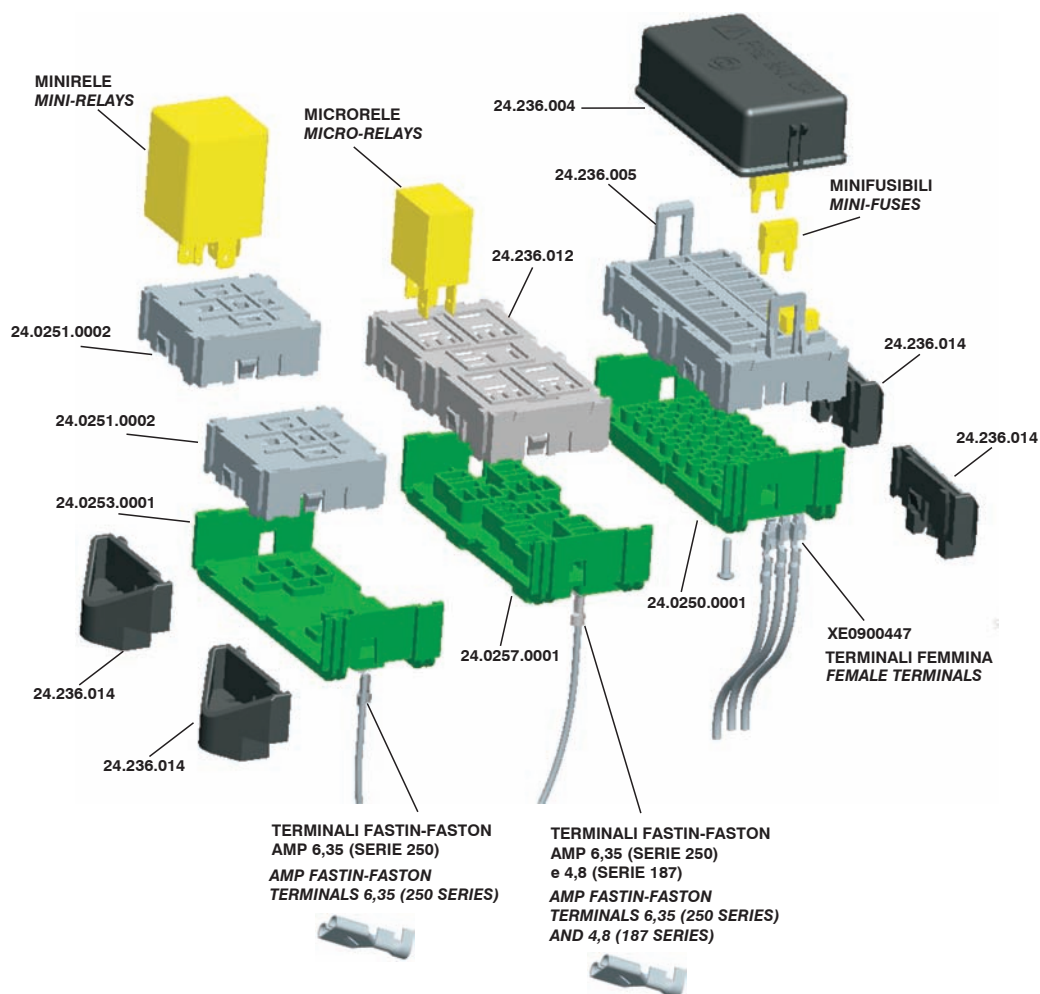
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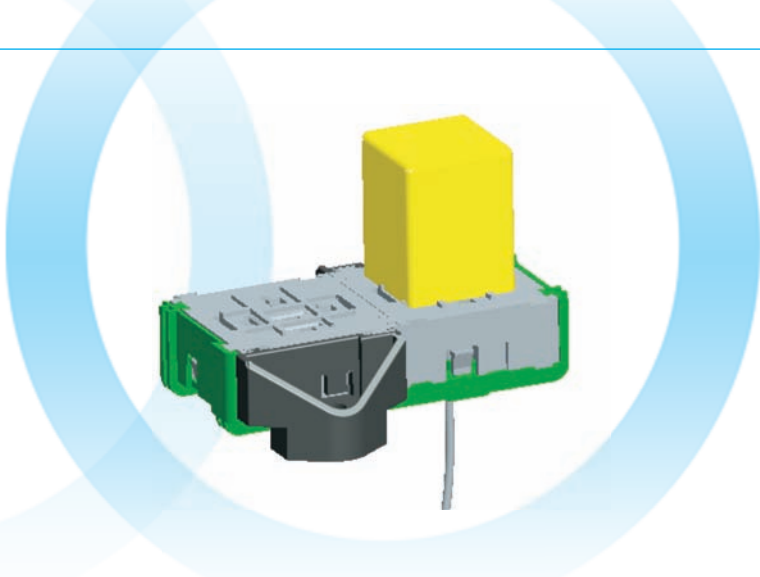
- Sistema modulare distribuzione potenza
- Power box modular system



ESEMPIO DI COMPOSIZIONE ASSEMBLY EXAMPLE



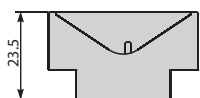
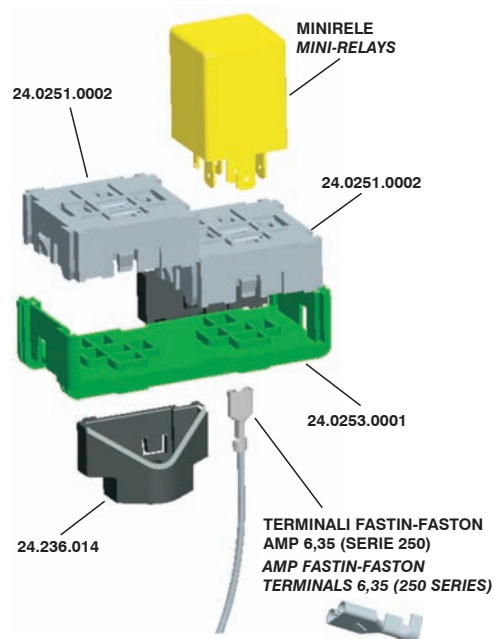
- **Modulo componibile porta minirelè**
- **Mini-relays holder module**



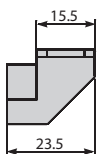
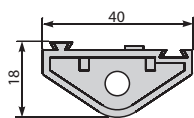
27.0948.0000

Kit composto da n° 2 moduli, 1 supporto, 2 staffe
Kit consisting of 2 modules, 1 frame, 2 brackets

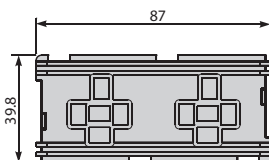
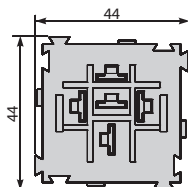
COMPOSIZIONE TIPICA TYPICAL PANEL ASSEMBLY



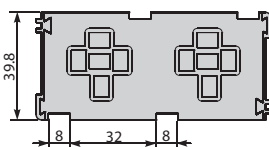
**Staffe
Brackets**
24.236.014



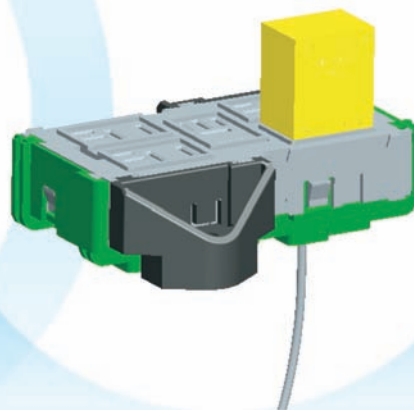
**Modulo per minirelè 30A
30A mini-relays module**
24.0251.0002



**Supporto per cablaggio
minirelè 30A
Frame for 30A
mini-relays harness**
24.0253.0001



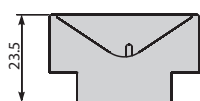
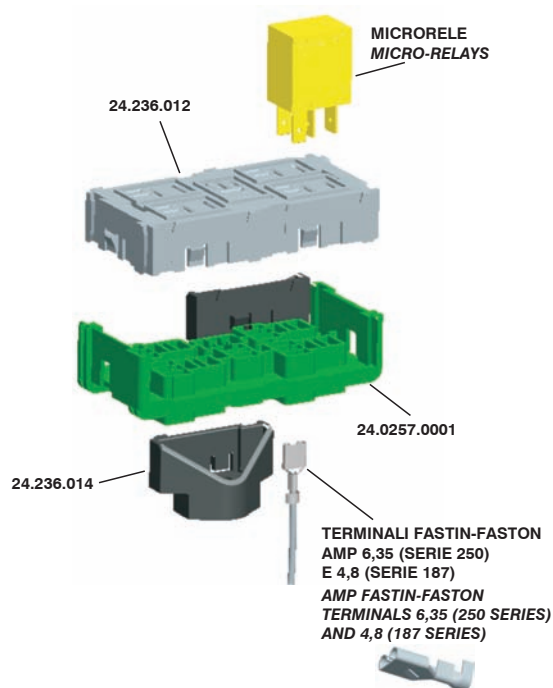
- Modulo componibile porta microrelè
- Micro-relays holder module



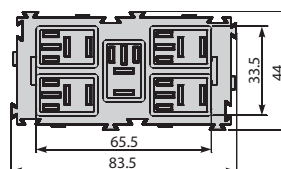
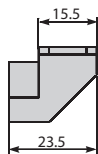
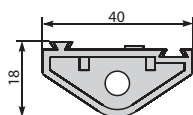
27.0946.0000

Kit composto da n° 1 modulo, 1 supporto, 2 staffe
Kit consisting of 1 module, 1 frame, 2 brackets

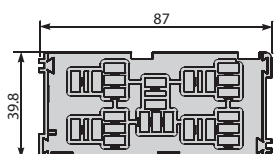
COMPOSIZIONE TIPICA TYPICAL PANEL ASSEMBLY



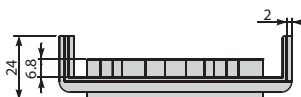
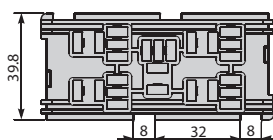
Staffe
Brackets
24.236.014



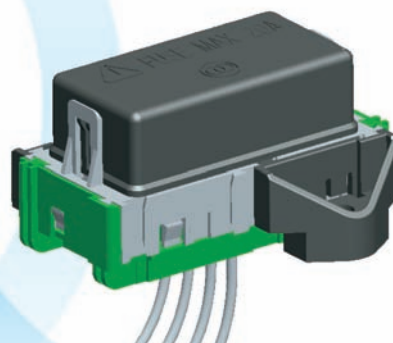
Modulo per max
n.5 microrelè 30A
Module for max
n.5 micro-relays 30A
24.236.012



Supporto per microrelè
Frame for micro-relays
24.0257.0001



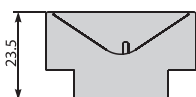
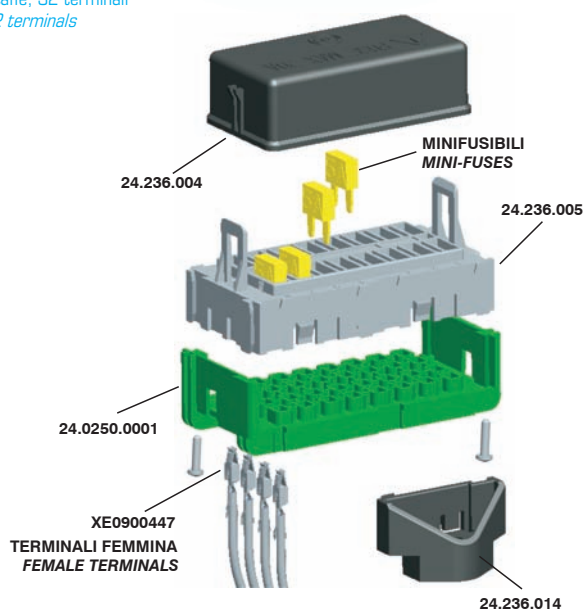
- Modulo componibile porta minifusibili
- Mini-fuses holder module



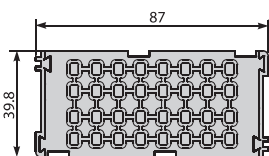
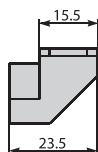
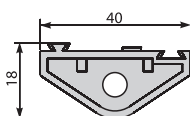
27.0947.0000

Kit composto da n° 1 modulo, 1 supporto, 1 coperchio, 2 staffe, 32 terminali
Kit consisting of 1 module, 1 frame, 1 cover, 2 brackets, 32 terminals

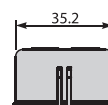
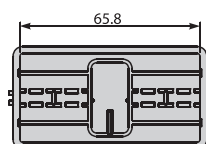
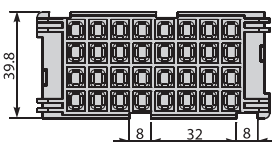
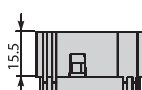
COMPOSIZIONE TIPICA TYPICAL PANEL ASSEMBLY



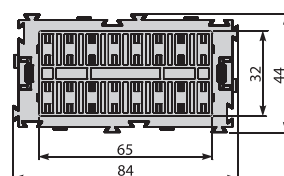
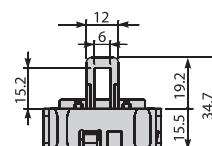
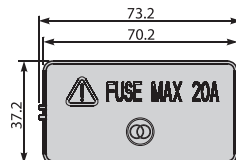
Staffe
Brackets
24.236.014



Supporto per modulo
minifusibili
Frame for mini-fuses
holder
24.0250.0001



Coperchio
Cover
24.236.004



Modulo porta minifusibili
Mini-fuses module
24.236.005

• Power Box

Materiale corpo: PBT + 15% GF

Temperatura di funzionamento: $-40^{\circ}\text{C} \div +120^{\circ}\text{C}$

Grado di protezione: IP30

Tensione di utilizzo: max 32V

• Power Box

Housing material: PBT + 15% GF

Operating temperature: $-40^{\circ}\text{C} \div +120^{\circ}\text{C}$

Sealing: IP30

Operating voltage: max 32V

CARATTERISTICHE

Il modulo Powerbox permette di distribuire in modo sicuro la tensione della batteria nei vari rami del circuito. Si installa facilmente e grazie ai moduli componibili fra loro si adatta alle diverse esigenze.

VERSIONE COMBINATA

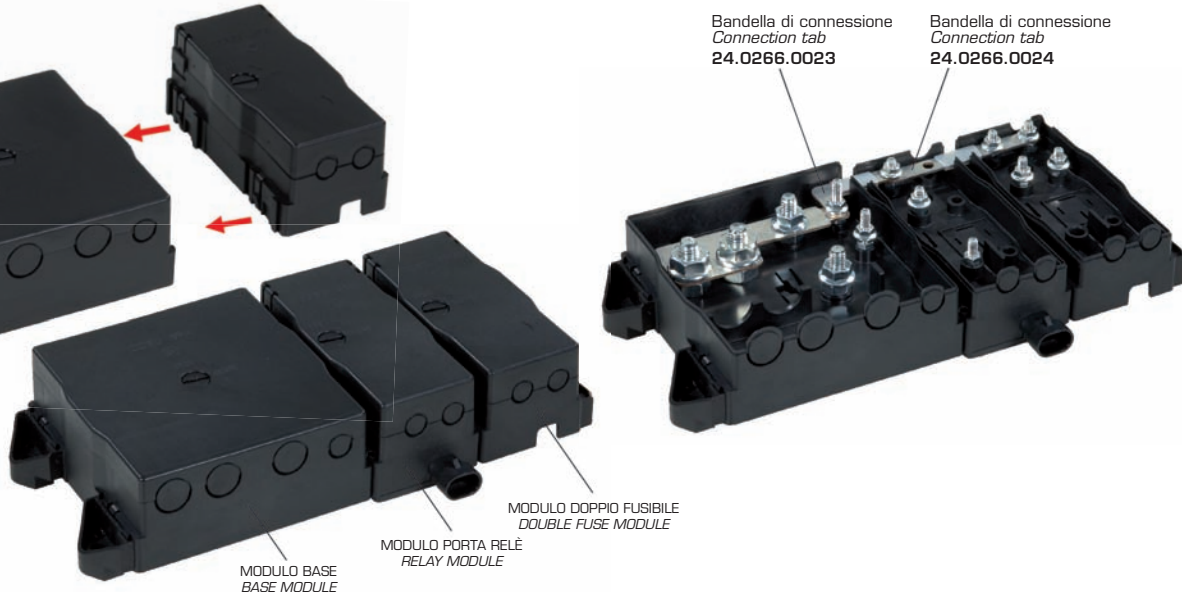
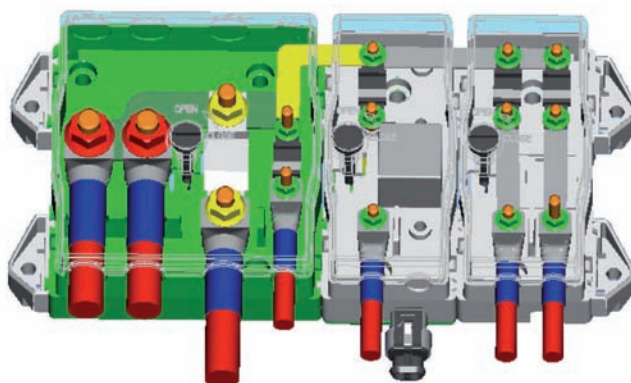
L'immagine sotto rappresenta una combinazione dei tre moduli esistenti ed è puramente indicativa. Al modulo base possono essere aggiunti moduli derivati in numero variabile a condizione che la somma delle loro correnti non superi 200A.

FEATURES

The Powerbox enables a safe distribution of battery voltage among all circuit lines. Its easy assembly through modules makes it flexible and suitable for different types of application.

COMBINED VERSION

Picture below represents a combination of the 3 existing modules but it only sets an example. It is possible to add a different number of modules to the base module, on condition that the sum of their electric charge is not higher than 200A.

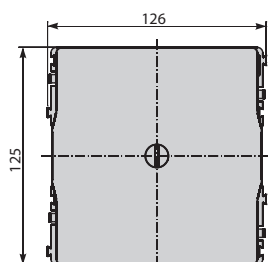


• Power Box - modulo base porta fusibili

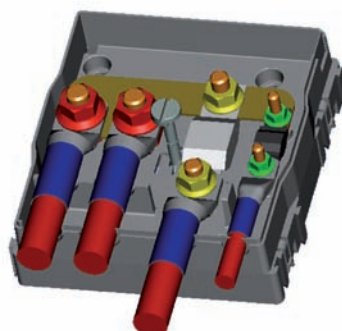
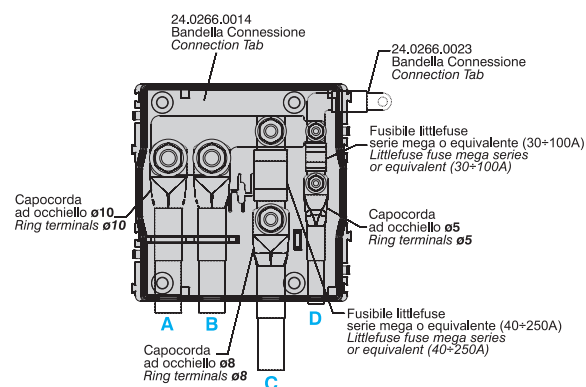
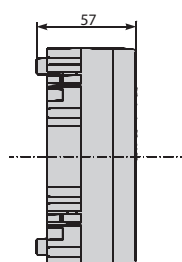
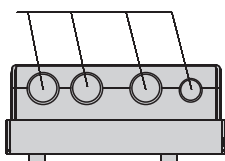
Il modulo base permette di distribuire la tensione della batteria nei vari rami del circuito. E' possibile connettere in parallelo n°2 cavi di sezione max 50 mmq (A e B) e di avere due uscite protette da fusibile; una (C) con protezione da 40-250A (fusibile tipo Mega) e l'altra (D) da 30-100A (fusibile tipo Midi).

• Power Box - base fuse holder module

The base module enables battery voltage distribution among all circuit lines. It allows parallel connection of n°2 cables, max sect. 50 mmq (A & B) and to have two outputs protected by a fuse; one output (C) protected by a 40-250A fuse (Mega series or equivalent) and the other one (D) protected by a 30-100A fuse (Midi series or equivalent).



Passaggio cavi frattura prestabilita
Cable breakable through hole



OPTIONAL

24.0266.0011
Copertura base
Base covering

24.0266.0100

- Modulo base con:
- 4 staffe
 - bandella di connessione
 - dadi
- Base module with:
- 4 brackets
 - connection tab
 - nuts

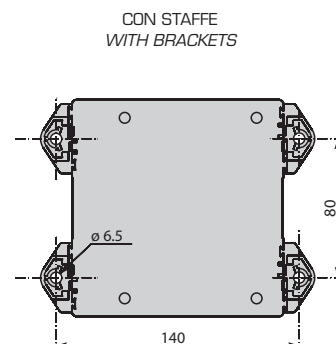
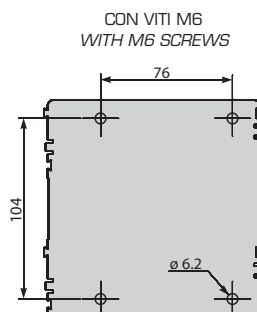
24.0266.0110

Modulo base senza componenti
Base module without components

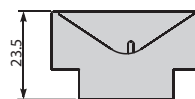
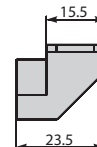
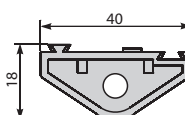
24.0266.0150

- Modulo base con:
- bandella di connessione
 - dadi
- Base module with:
- connection tab
 - nuts

FORATURE DI APPLICAZIONE FIXING HOLE



Staffe Brackets 24.236.014

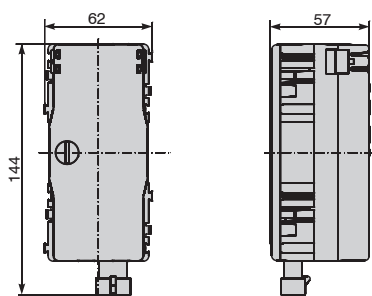


• Power Box - modulo porta relè e fusibili

Il modulo porta relè può essere impiegato in abbinamento al "modulo base" oppure in modo a sé stante; nel primo caso l'alimentazione viene derivata dal modulo base attraverso l'apposita bandella di conduzione, mentre nel secondo caso viene alimentato tramite cavo esterno (A). In entrambe le configurazioni l'uscita (B) è pilotata da un relè da 70A (alimentato tramite connettore AMP Superseal 2 vie) e protetta da un fusibile 30-100A (tipo Midi).

• Power Box - relay and fuse holder module

The relay module can be used in combined version with the "base module" or independently; in the first case power supply is derived from the base module through the connection tab, while in the second case power is supplied by an external cable (A). For both versions the output (B) is driven by a 70A relay (supplied by a 2-way AMP Superseal connector) and protected by a 30-100A fuse (Midi series or equivalent).

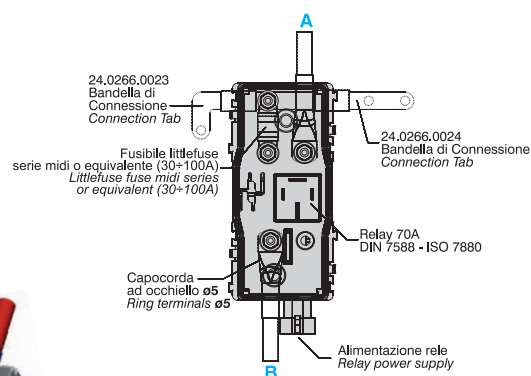
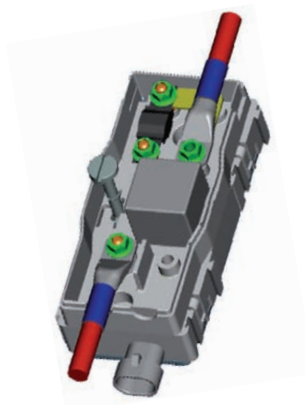


Passaggio cavi frattura prestabilita
Cable breakable through hole



27.0958.0000

Kit di connessione S/Seal 2 vie
Connection kit: 2 pins S/Seal



OPTIONAL

24.0266.0006

Copertura base
Base covering

24.0266.0200

Modulo porta relè con:

- 4 staffe
- 2 bandelle di connessione
- dadi

Relay module with:

- 4 brackets
- 2 connection tabs
- nuts

24.0266.0210

Modulo porta relè senza componenti
Relay module without components

24.0266.0250

Modulo porta relè con:

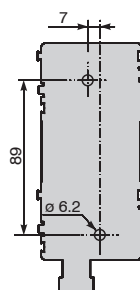
- 2 bandelle di connessione
- dadi

Relay module with:

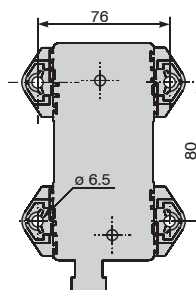
- 2 connection tabs
- nuts

FORATURE DI APPLICAZIONE FIXING HOLE

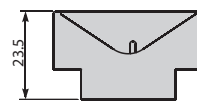
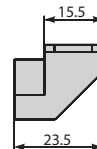
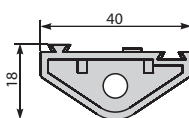
CON VITI M6
WITH M6 SCREWS



CON STAFFE
WITH BRACKETS



Staffe
Brackets
24.236.014

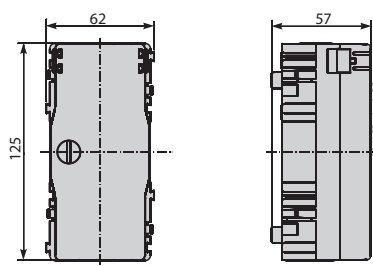


• Power Box - modulo doppio fusibile

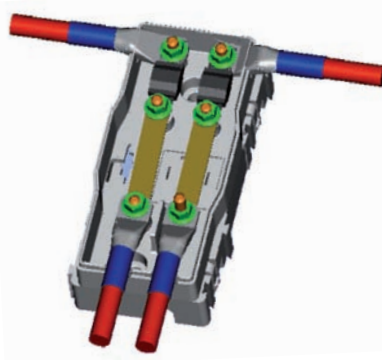
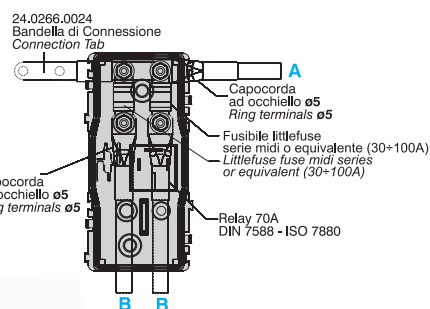
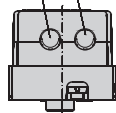
Il modulo doppio fusibile può essere impiegato in abbinamento al "modulo base" oppure in modo a sé stante; nel primo caso l'alimentazione viene derivata dal modulo base attraverso l'apposita bandella di conduzione, mentre nel secondo caso viene alimentato tramite cavo esterno (A). In entrambe le configurazioni le due uscite (B) sono protette ciascuna da un fusibile 30 -100A (tipo Midi).

• Power Box - double fuse module

The double fuse module can be used in combined version with the "base module" or independently; in the first case power supply is derived from the base module through the connection tab, while in the second case power is supplied by an external cable (A). For both versions the outputs (B) are protected by a 30-100A fuse (Midi series or equivalent).



Passaggio cavi frattura prestabilita
Cable breakable through hole



OPTIONAL
24.0266.0006
Copertura base
Base covering

24.0266.0300

Modulo doppio fusibile con:
• 4 staffe
• bandella di connessione
• dadi

Double fuse module with:
• 4 brackets
• connection tab
• nuts

24.0266.0310

Modulo doppio fusibile senza componenti
Double fuse module without components

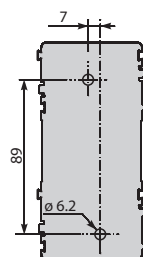
24.0266.0350

Modulo doppio fusibile con:
• bandella di connessione
• dadi

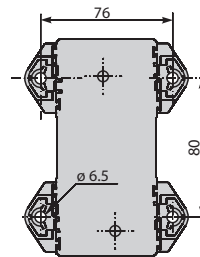
Double fuse module with:
• connection tab
• nuts

FORATURE DI APPLICAZIONE FIXING HOLE

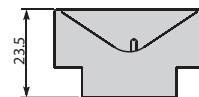
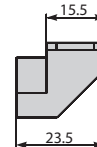
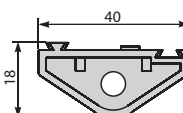
CON VITI M6
WITH M6 SCREWS



CON STAFFE
WITH BRACKETS



Staffe
Brackets
24.236.014

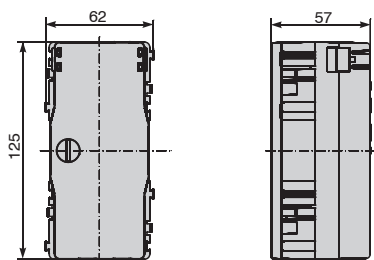


• Power Box - modulo doppio fusibile con copertura base

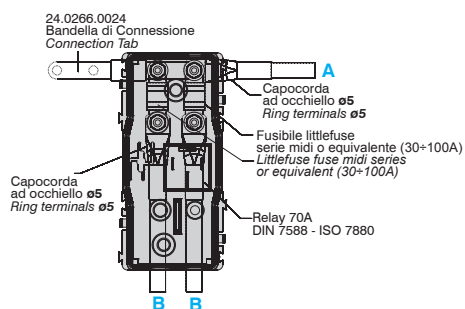
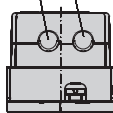
Il modulo doppio fusibile può essere impiegato in abbinamento al "modulo base" oppure in modo a sé stante; nel primo caso l'alimentazione viene derivata dal modulo base attraverso l'apposita bandella di conduzione, mentre nel secondo caso viene alimentato tramite cavo esterno (A). In entrambe le configurazioni le due uscite (B) sono protette ciascuna da un fusibile 30 -100A (tipo Midi).

• Power Box - double fuse module with base covering

The double fuse module can be used in combined version with the "base module" or independently; in the first case power supply is derived from the base module through the connection tab, while in the second case power is supplied by an external cable (A). For both versions the outputs (B) are protected by a 30 -100A fuse (Midi series or equivalent).



Passaggio cavi frattura prestabilita
Cable breakable through hole



24.0266.0400

- 4 staffe
- bandella di connessione
- dadi
- 4 brackets
- connection tab
- nuts

24.0266.0410

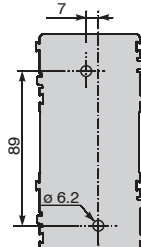
Modulo doppio fusibile senza componenti
Double fuse module without components

24.0266.0450

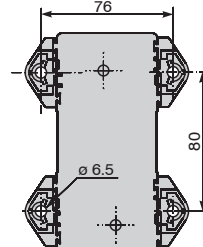
- bandella di connessione
- dadi
- connection tab
- nuts

FORATURE DI APPLICAZIONE FIXING HOLE

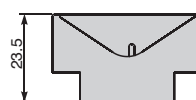
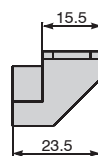
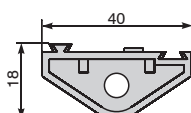
CON VITI M6
WITH M6 SCREWS



CON STAFFE
WITH BRACKETS



Staffe
Brackets
24.236.014



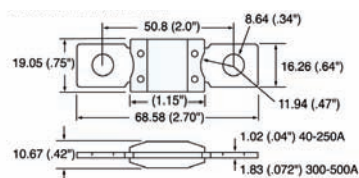
MEGA FUSE

SPECIFICHE / SPECIFICATIONS

Potere di interruzione nominale - *Interrupting Rating*: 2000A @ 32 VDC

Tensione nominale - *Voltage Rating*: 32 VDC

Temperatura di funzionamento - *Operating Temperature Range*: - 40°C C to + 125° C



P/N	CORRENTE NOMINALE CURRENT RATING	COLORE COLOUR	CADUTA DI TENSIONE VOLTAGE DROP	RESISTENZA A FREDDO COLD RESISTANCE
163099	40 A	-	132 mV	2.510 mΩ
163100	60 A	-	119 mV	1.504 mΩ
163101	80 A		87 mV	0.720 mΩ
163059	100 A		87 mV	0.562 mΩ
163105	125 A		80 mV	0.423 mΩ
163058	150 A		92 mV	0.352 mΩ
163073	175 A		86 mV	0.294 mΩ
163078	225 A		82 mV	0.222 mΩ
163082	300 A		74 mV	0.167 mΩ

MIDI FUSE

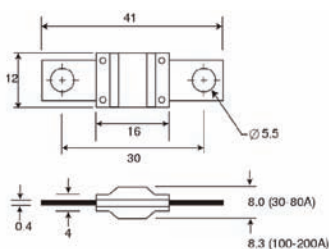
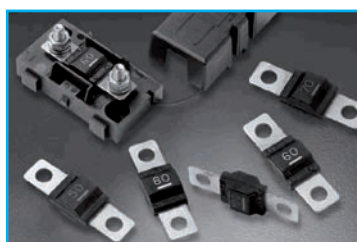
SPECIFICHE / SPECIFICATIONS

Potere di interruzione nominale - *Interrupting Rating*: 1000A @ 32 VDC

Tensione nominale - *Voltage Rating*: 32 VDC

Temperatura di funzionamento -

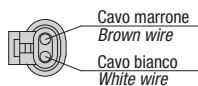
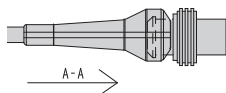
Operating Temperature Range: - 40°C C to + 125° C



P/N	CORRENTE NOMINALE CURRENT RATING	COLORE COLOUR	RESISTENZA A FREDDO COLD RESISTANCE
163065	40 A		1.3 mΩ
163066	50 A		1.04 mΩ
163064	60 A		0.87 mΩ
163067	80 A		0.56 mΩ
163068	100 A		0.45 mΩ

KIT CONNESSIONE CONNECTION KIT

SPECIFICHE / SPECIFICATIONS



P/N	DESCRIZIONE DESCRIPTION
27.0958.0000	Kit di connessione S/Seal 2 vie Connection kit 2 ways S/Seal

24.0273.0000

Kit portafusibile serie MAXI 1 via - IP66
Fuses box kit MAXI series 1 pin - IP66

