



HEAVY DUTY

**ROCKER
SWITCHES**



RANGE

3000



RANGE

3200



RANGE

4000



Questo catalogo comprende tre famiglie di basculanti elettromeccanici: “serie 3000”, “serie 3200” e “serie 4000”

Per la ricerca dell'interruttore più adatto, ogni tipologia di tasto è stata suddivisa ulteriormente per:

1) AZIONAMENTI STABILI

- A) tasto con 1 simbolo
- B) tasto con 1 simbolo + ricerca
- C) tasto con 2 simboli

2) AZIONAMENTI INSTABILI

- A) tasto con 1 simbolo
- B) tasto con 1 simbolo + ricerca
- C) tasto con 2 simboli

This catalog includes three families of electromechanical rocker switches: “serie 3000”, “serie 3200” and “serie 4000”

For searching the appropriate rocker switch, every family is further subdivided in:

1) *STABLE ACTIVATION*

- A) switch with 1 symbol*
- B) switch with 2 symbol + search*
- C) switch with 2 symbols*

2) *MOMENTARY ACTIVATION*

- A) switch with 1 symbol*
- B) switch with 2 symbol + search*
- C) switch with 2 symbols*










3000 - 3200 range

INTERRUTTORI A TASTO BASCULANTE / *ROCKER SWITCHES*

- Interruttori a bilancere per carichi gravosi
- Alta affidabilità e lunga vita operativa
- Bordi arrotondati in accordo a Mother Regulation
- Retroilluminazione a LED
- Customizzazione dei simboli con incisione laser
- *Heavy duty rocker switches*
- *High reliability and long life*
- *Beveled corners according to Mother Regulation*
- *LED backlight*
- *Symbols customizable by laser engraving*

SPECIFICHE TECNICHE

Technical specifications

	Alimentazione <i>Power supply</i>	12V or 24V
	Sorgenti luminose <i>Light sources</i>	LED
	Simboli <i>Icons</i>	Incisi a laser <i>Laser engraved</i>
	Grado di protezione <i>Sealing degree</i>	IP67
	Temperatura di funzionamento <i>Operating temperature</i>	- 40 °C ++ 85 °C
	Carico massimo <i>Maximum load</i>	10A @ 12V Carico resistivo / <i>Resistive load</i> 5A @ 24V Carico resistivo / <i>Resistive load</i>
	Connettore / Terminali <i>Connector / Terminals</i>	Male blade terminal 1.8 x 0.65 mm Econseal "J"
	Connettore controparte <i>Mating connector</i>	AMP Econseal "J" 10 pins OPTIONAL KIT P/N: 1028517 (27-0904-0000) (Includes: connector; rubber taps; terminals; caps)
	Durata elettromeccanica <i>Electromechanical expected life</i>	10A @ 12V 25'000 cycles 2A @ 12V 200'000 cycles 5A @ 24V 25'000 cycles 1A @ 24V 200'000 cycles

3000 - 3200 range

INTERRUTTORI A TASTO BASCULANTE / *ROCKER SWITCHES*

ICONE PERSONALIZZABILI
CUSTOMIZABLE ICONS

SUPERFICIE RIENTRANTE

- Enfatisza la separazione
- Percezione forma tasto più dinamica

RECEDING SURFACE

- Emphasizes icons separation
- Adds dynamism to button shape

**RAGGI SMUSSATI IN ACCORDO
ALLA MOTHER REGULATION**

**BEVELED RADII ACCORDING
TO MOTHER REGULATION**



FRONT



SIDE



LUCI DI FUNZIONE A LED

Una o due luci di funzione a LED per pulsante. I colori includono ambra, verde, rosso e blu.

LED FUNCTION LIGHTS

One or two LED Function Lights per switch. Colors include Amber, Green, Red and Blue.



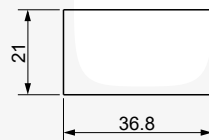
OPTIONAL CONNECTOR
see page 29



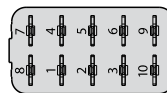
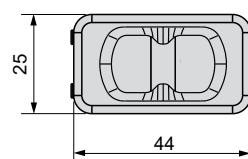
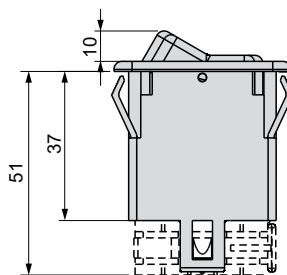
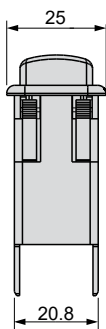
3000 range



FORATURA - *FIXING HOLE*
21 x 36.8 mm



Spessore pannello / *Panel thickness*
1.5 - 4.0 mm

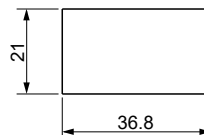


3200 range

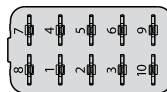
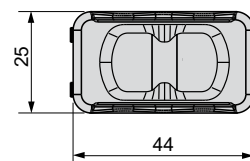
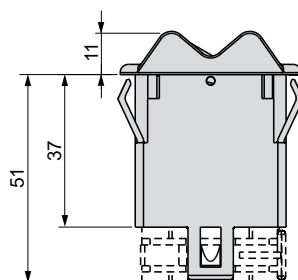
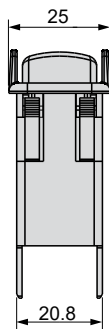
con protezione anti-azionamento involontario "guard rail"
with protection against unintentional activation "guard rail"



FORATURA - *FIXING HOLE*
21 x 36.8 mm

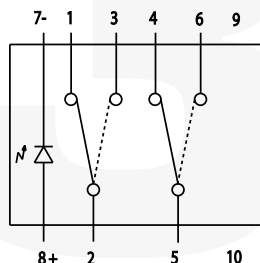


Spessore pannello / *Panel thickness*
1.5 - 4.0 mm



3000 range

Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0



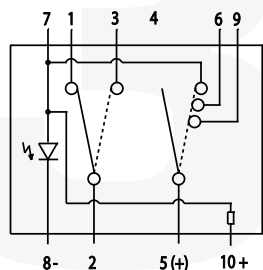
0 POSIZIONE STABILE
0 MAINTAINED POSITION

1 POSIZIONE STABILE
1 MAINTAINED POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1091614 16-3001-1000	50	12V		Sidehill machine, lock GREEN	-	TIN PLATE	WHITE
1091627 16-3001-1001	50	24V		Hazard warning ISO 7000 (0085) RED	-	TIN PLATE	WHITE
1091628 1091629 16-3001-1002	50 50	12V 24V		Hazard warning ISO 7000 (0085) RED	-	TIN PLATE	WHITE
1096166 16-3001-1003	2	12V		Research GREEN	-	TIN PLATE	WHITE
1096167 16-3001-1004	2	12V		Interior compartment illumination, interior (dome) light ISO 7000 (1421B) GREEN	-	TIN PLATE	WHITE
1100318 1100325 16-3001-1005	2 50	24V 24V		Windscreen wiper, windshield wiper ISO 7000 (0086) WHITE	-	TIN PLATE	WHITE

3000 range



LED SX doppia intensità luminosa
LH LED double intensity

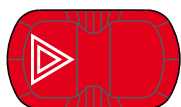
Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

0 POSIZIONE STABILE
0 MAINTAINED POSITION

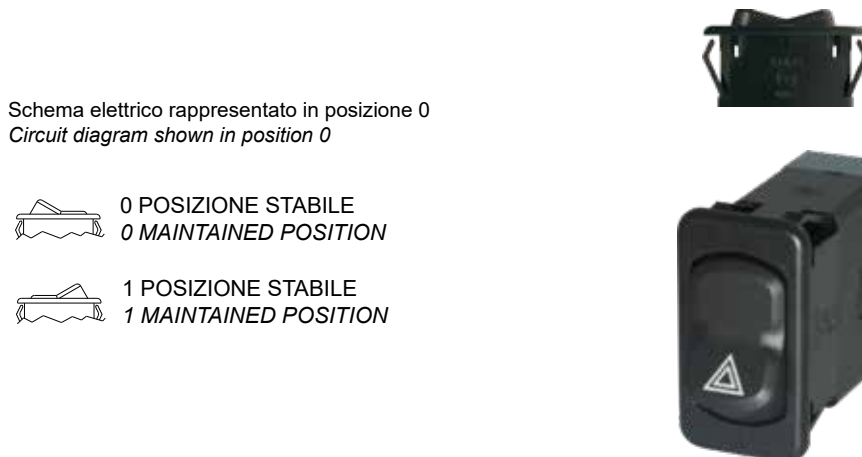
1 POSIZIONE STABILE
1 MAINTAINED POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099901 16-3099-1000	50	12V		Hazard warning ISO 7000 (0085) ● RED	-	TIN PLATE	○ WHITE



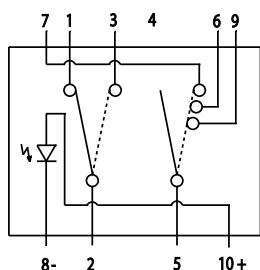
● RED



Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

0 POSIZIONE STABILE
0 MAINTAINED POSITION

1 POSIZIONE STABILE
1 MAINTAINED POSITION

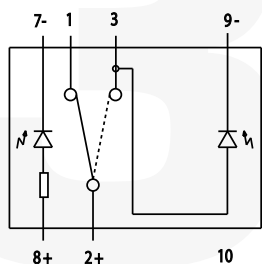


P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1096169 1101146 16-3021-1000	2 2	12V 24V		Hazard warning ISO 7000 (0085) ● RED	-	TIN PLATE	○ WHITE



● RED

3000 range





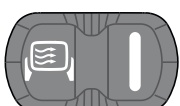
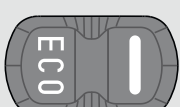




Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

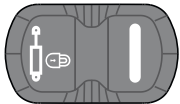
 1 POSIZIONE STABILE
1 MAINTAINED POSITION



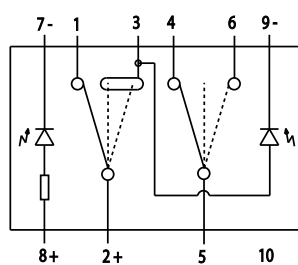
LED SX bassa intensità luminosa
LH LED low intensity

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099883 16-3096-1000	50	12V		Identification light; Beacon ISO 7000 (1141B) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099884 16-3096-1001	50	12V		Work lamp ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099902 16-3096-1002	50	12V		Exterior rear view mirror, heating, vertical type ISO 7000 (2470) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099905 16-3096-1003	50	12V		Eco ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099914 16-3096-1004	50	12V		Rotation speed reduction ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099916 16-3096-1005	50	12V		Stabilizer (Left) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099917 16-3096-1006	50	12V		Stabilizer (Right) ISO 7000 (2072) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099920 16-3096-1007	50	12V		Enable special tools ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE

3000 range

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100232 16-3096-1008	50	12V		Hydraulic cylinder, lock ISO 7000 (2642) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE

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Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1

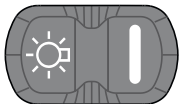
 1 POSIZIONE STABILE
1 MAINTAINED POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

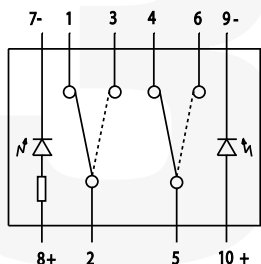
 2 POSIZIONE STABILE
2 MAINTAINED POSITION



LED SX bassa intensità luminosa
LH LED low intensity

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099898 16-3097-1000	50	12V		Lights main switch IEC 60417 (5012) Lamp, lighting, illumination ○ WHITE	Research ● GREEN	TIN PLATE	○ WHITE

3000 e 3200 range



LED SX bassa intensità luminosa
LH LED low intensity

Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

0 POSIZIONE STABILE
0 MAINTAINED POSITION

1 POSIZIONE STABILE
1 MAINTAINED POSITION

Type A



Type B

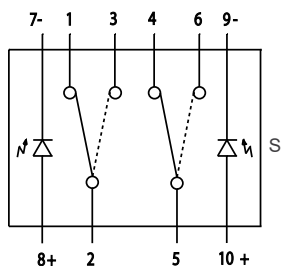


P/N	Pkg Q.ty	Power Supply	Key Symbol	Type	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099894 16-3095-1000	50	12V		A	Electric power, accessories ISO 7000 (2302) <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1099895 16-3095-1001	50	12V		A	Work light (Front) ISO 7000 (1204) <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1099896 16-3095-1002	50	12V		A	Work light (Rear) ISO 7000 (1204) <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1099907 16-3095-1003	50	12V		A	Fast operation ISO 7000 (2810) <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1099910 16-3095-1004	50	12V		A	Olives shaker <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1100176 16-3095-1005	50	12V		A	Rotation speed reduction <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1099899 16-3295-1000	50	12V		B	Radio control <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE
1099900 16-3295-1001	50	12V		B	Boom suspension <input type="radio"/> WHITE	Research <input checked="" type="radio"/> ORANGE	TIN PLATE	<input type="radio"/> WHITE

3000 e 3200 range

P/N	Pkg Q.ty	Power Supply	Key Symbol	Type	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099904 16-3295-1002	50	12V		B	Engine emissions filter, regeneration, disable ISO 7000 (2947) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE
1099906 16-3295-1003	50	12V		B	Parking brake ISO 7000 (0238) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE

Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0



0 POSIZIONE STABILE
0 MAINTAINED POSITION

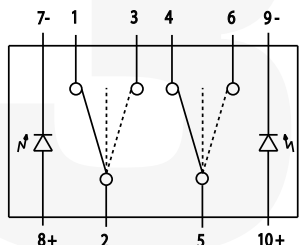
1 POSIZIONE STABILE
1 MAINTAINED POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1091623 16-3005-1000	50	24V		W ● GREEN	Excavator backhoe ● GREEN	TIN PLATE	○ WHITE
1091624 1091626 16-3005-1001	50 50	12V 24V		Excavator backhoe ● GREEN	W ● GREEN	TIN PLATE	○ WHITE
1097340 1097339 16-3005-1002	2 50	24V 24V		Excavator backhoe ● GREEN	W ● GREEN	TIN PLATE	○ WHITE
1097342 1097344 1097343 16-3005-1003	2 2 50	12V 24V 24V		W ● GREEN	Excavator backhoe ● GREEN	TIN PLATE	○ WHITE

3000 range

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



1 POSIZIONE STABILE
1 MAINTAINED POSITION

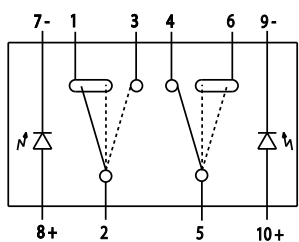
0 POSIZIONE STABILE
0 MAINTAINED POSITION

2 POSIZIONE STABILE
2 MAINTAINED POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1091656 16-3030-1000	50	12V		Suspended axle, automatic ● GREEN	Suspended axle, lock ● GREEN	TIN PLATE	○ WHITE
1097346 1097345 16-3030-1001	2 50	12V 12V		Suspended axle, lock ● GREEN	Suspended axle, automatic ● GREEN	TIN PLATE	○ WHITE

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



1 POSIZIONE STABILE
1 MAINTAINED POSITION

0 POSIZIONE STABILE
0 MAINTAINED POSITION

2 POSIZIONE STABILE
2 MAINTAINED POSITION

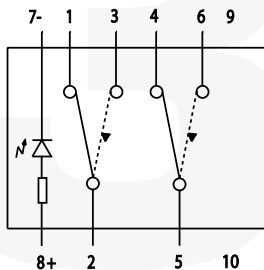


P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100262 16-3048-1000	50	12V		Low beam, dipped beam ISO 7000 (0083) ○ WHITE	Position lights, side lights ISO 7000 (0456) ○ WHITE	TIN PLATE	○ WHITE

3000 range

MOMENTARY

Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

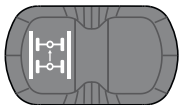


 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

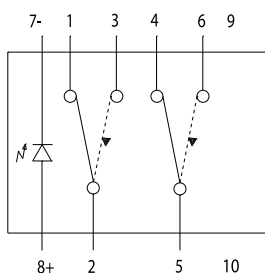


Bassa intensità luminosa
Low intensity

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099889 17-3086-1000	50	12V		Automatic wheels alignment ○ WHITE	-	TIN PLATE	○ WHITE

MOMENTARY


Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0



 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

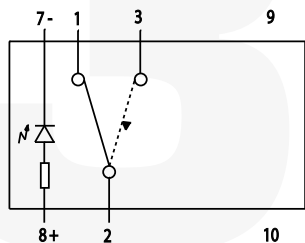


P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100319 1100326 17-3001-1000	2 50	24V 24V		Windscreen washer, windshield washer ISO 7000 (0088) ○ WHITE	-	TIN PLATE	○ WHITE

3000 range

MOMENTARY

Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0



 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION



Bassa intensità luminosa
Low intensity

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099885 17-3081-1000	50	12V		Stabilizer ISO 7000 (2072) ○ WHITE	-	TIN PLATE	○ WHITE
1099886 17-3081-1001	50	12V		Unlock ISO 7000 (3305) ○ WHITE	-	TIN PLATE	○ WHITE
1099887 17-3081-1002	50	12V		Trailer descendant ○ WHITE	-	TIN PLATE	○ WHITE
1099888 17-3081-1003	50	12V		Fan drive ○ WHITE	-	TIN PLATE	○ WHITE
1099903 17-3081-1004	50	12V		Road vehicle, engine emission filter ISO 7000 (2433) ○ WHITE	-	TIN PLATE	○ WHITE
1099908 17-3081-1005	50	12V		Trailer brake ISO 7000 (2672) ○ WHITE	-	TIN PLATE	○ WHITE
1099913 17-3081-1006	50	12V		Hydraulic cylinder, lock ISO 7000 (2642) ○ WHITE	-	TIN PLATE	○ WHITE
1099915 17-3081-1007	50	12V		Power take-off (PTO) ISO 7000 (1572) ○ WHITE	-	TIN PLATE	○ WHITE

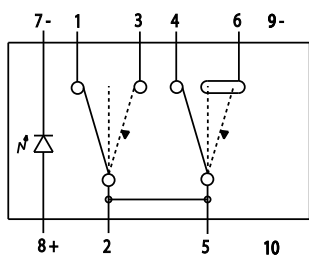
3000 range

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099918 17-3081-1008	50	12V		Engine emissions filter, regeneration, disable ISO 7000 (2947) ○ WHITE	-	TIN PLATE	○ WHITE
1099921 17-3081-1009	50	12V		Differential lock ISO 7000 (1662) ○ WHITE	-	TIN PLATE	○ WHITE

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MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



1 POSIZIONE STABILE
1 MAINTAINED POSITION

0 POSIZIONE STABILE
0 MAINTAINED POSITION

2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



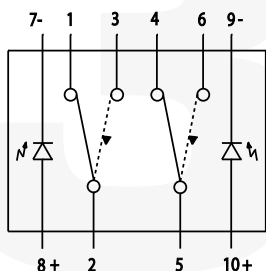
P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1096170 16-3051-1000	2	12V		Windscreen washer, windshield washer ISO 7000 (0088) ● GREEN	-	TIN PLATE	○ WHITE

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3000 range

MOMENTARY

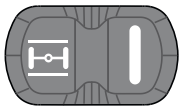
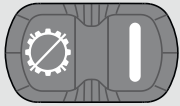
Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0



 0 POSIZIONE STABILE
0 MAINTAINED POSITION

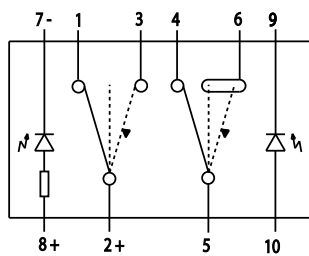
 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1092654 17-3005-1000	50	24V		Axial oscillating lock ● GREEN	Research ● GREEN	TIN PLATE	○ WHITE
1096171 17-3005-1001	2	12V		Gear ● GREEN	Research ● GREEN	TIN PLATE	○ WHITE

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



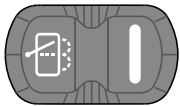
 1 POSIZIONE STABILE
1 MAINTAINED POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



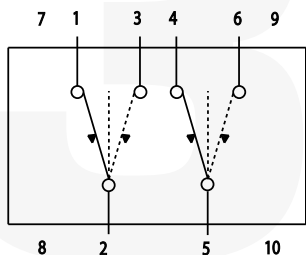
LED SX bassa intensità luminosa
LH LED low intensity

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099897 16-3098-1000	50	12V		Rear window washer and wiper ISO 7000 (0098) ○ WHITE	Research ● ORANGE	TIN PLATE	○ WHITE

3000 range

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 2 POSIZIONE INSTABILE
2 MOMENTARY POSITION

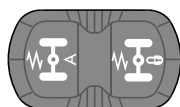


P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
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1092653
17-3020-1000

50

-



Suspended axle, automatic

Suspended axle, lock

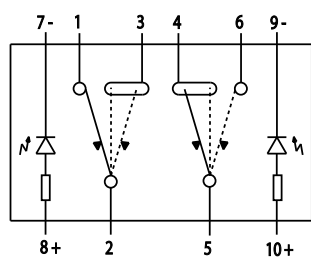
TIN PLATE

○ WHITE

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MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



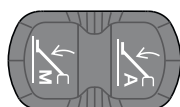
Bassa intensità luminosa
Low intensity

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
-----	----------	--------------	------------	------------------------	-------------------------	-------------------	-----------------------------

1099911
17-3088-1000

50

12V



Stabilizer man

○ WHITE

Stabilizer auto

○ WHITE

TIN PLATE

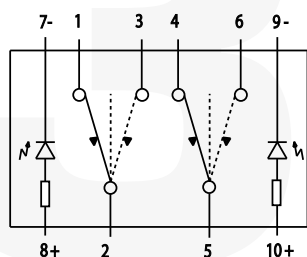
○ WHITE

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3000 range

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1




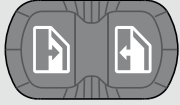
 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



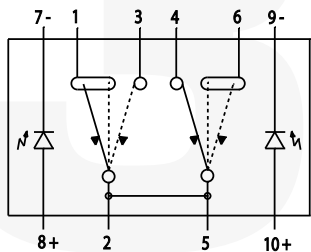
Bassa intensità luminosa
Low intensity


P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1099890 17-3087-1000	50	12V		Fast operation ISO 7000 (2810) <input type="radio"/> WHITE	Slow operation ISO 7000 (2811) <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE
1099891 17-3087-1001	50	12V		Leveling <input type="radio"/> WHITE	Leveling <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE
1099892 17-3087-1002	50	12V		Hand throttle down <input type="radio"/> WHITE	Hand throttle up <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE
1099893 17-3087-1003	50	12V		Window lifters up <input type="radio"/> WHITE	Window lifters down <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE
1099909 17-3087-1004	50	12V		Trailer descendant <input type="radio"/> WHITE	Trailer descendant <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE
1099912 17-3087-1005	50	12V		Rotation unlock man <input type="radio"/> WHITE	Rotation unlock auto <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE
1099919 17-3087-1006	50	12V		Boom speed <input type="radio"/> WHITE	Boom speed <input type="radio"/> WHITE	TIN PLATE	<input type="radio"/> WHITE

3200 range

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1




 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100240	2	24V		Research	Parking brake ISO 7000 (0238)	TIN PLATE	○ WHITE
1100239	50	24V		● RED	● RED		
17-3269-1000							

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4000 range










INTERRUTTORI A TASTO BASCULANTE / *ROCKER SWITCHES*

- Interruttori a bilancere per carichi gravosi
- Alta affidabilità e lunga vita operativa
- Bordi arrotondati in accordo a Mother Regulation
- Tasto esterno ad ampia superficie di azionamento
- Retroilluminazione a LED
- Customizzazione dei simboli con incisione laser

- *Heavy duty rocker switches*
- *High reliability and long life*
- *Beveled corners according to Mother Regulation*
- *External key with ample activation surface*
- *LED backlight*
- *Symbols customizable by laser engraving*

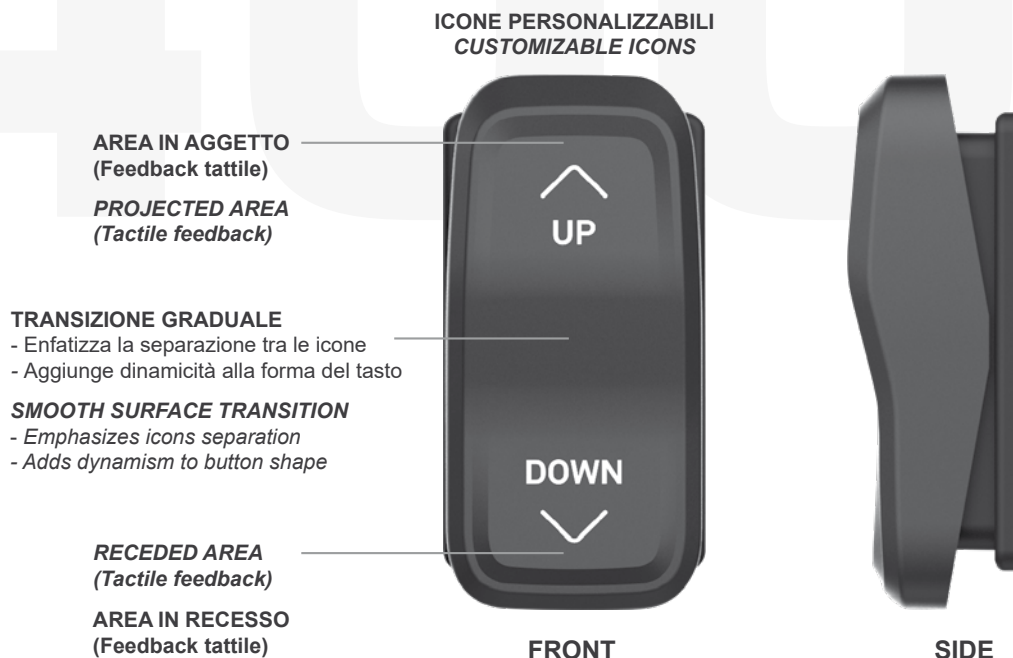
SPECIFICHE TECNICHE

Technical specifications

	Alimentazione <i>Power supply</i>	12V or 24V
	Sorgenti luminose <i>Light sources</i>	LED
	Simboli <i>Icons</i>	Incisi a laser <i>Laser engraved</i>
	Grado di protezione <i>Sealing degree</i>	IP66 (front only)
	Temperatura di funzionamento <i>Operating temperature</i>	- 40 °C + + 85 °C
	Carico massimo <i>Maximum load</i>	10A @ 12V 5A @ 24V
	Terminali per connessione <i>Terminals for connection</i>	Blade terminals 6.35 mm
	Connettore controparte <i>Mating connector</i>	Connector 8 pins, female terminals 6.35mm P/N: 1024196 (16-600-021) Connector 12 pins, female terminals 6.35mm P/N: 1024716 (16-650-003)
	Durata elettromeccanica <i>Electromechanical expected life</i>	10A @ 12V 25'000 cycles 2A @ 12V 200'000 cycles 5A @ 24V 25'000 cycles 1A @ 24V 200'000 cycles

4000 range

INTERRUTTORI A TASTO BASCULANTE / *ROCKER SWITCHES*



LUCI DI FUNZIONE A LED

Una o due luci di funzione a LED per pulsante. I colori includono ambra, verde, rosso e blu.

LED FUNCTION LIGHTS

One or two LED Function Lights per switch. Colors include Amber, Green, Red and Blue.



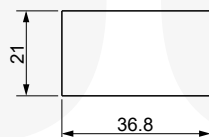
OPTIONAL CONNECTOR
see page 33



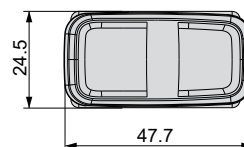
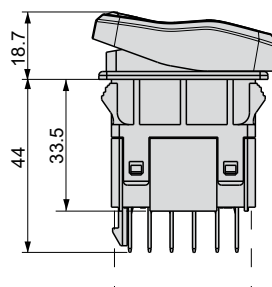
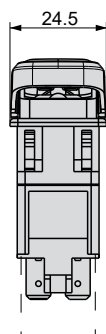
4000 range

INTERRUTTORI A TASTO BASCULANTE / *ROCKER SWITCHES*

FORATURA - *FIXING HOLE*
21 x 36.8 mm



Spessore pannello / *Panel thickness*
1.5 - 3.0 mm



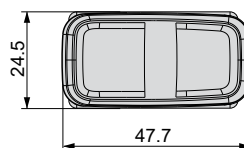
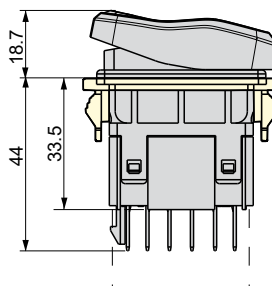
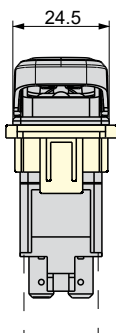
FORATURA CON ADATTATORE
FIXING HOLE WITH ADAPTER
22 x 44 mm



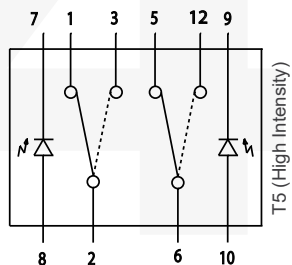
Spessore pannello
Panel thickness
1.5 - 3.0 mm



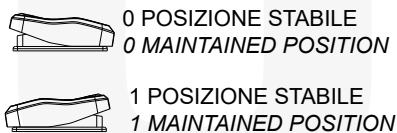
ADAPTER
See page 31



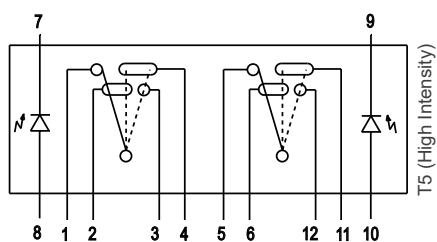
4000 range



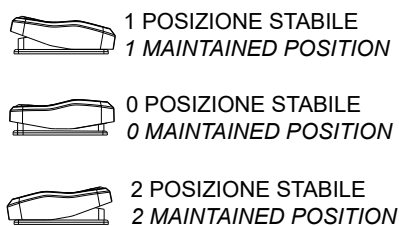
Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100987 1100989 16-4016-1100	2 2	12V 24V		Work light (Front) ISO 7000 (1204) ○ WHITE	Research ● YELLOW	BRASS	○ WHITE



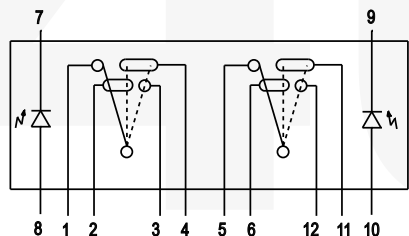
Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100992 1100993 16-4024-1100	2 2	12V 24V		Windscreen wiper, windshield wiper ISO 7000 (0086) ○ WHITE	Research ● YELLOW	BRASS	○ WHITE

4000 range

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



1 POSIZIONE STABILE
1 MAINTAINED POSITION

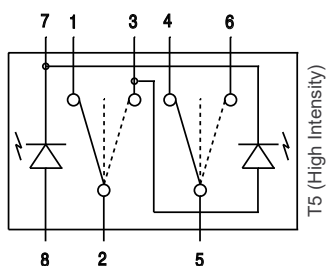
0 POSIZIONE STABILE
0 MAINTAINED POSITION

2 POSIZIONE STABILE
2 MAINTAINED POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100994	2	12V		Stabilizer man	Stabilizer auto	BRASS	○ WHITE
1100995	2	24V		○ WHITE	○ WHITE		
16-4024-1101							

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



1 POSIZIONE STABILE
1 MAINTAINED POSITION

0 POSIZIONE STABILE
0 MAINTAINED POSITION

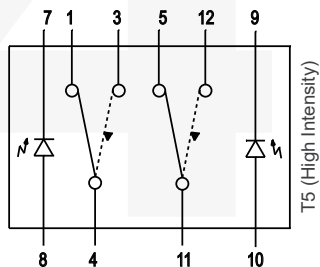
2 POSIZIONE STABILE
2 MAINTAINED POSITION





P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1101015	2	12V		Automatic differential lock	Manual differential lock	BRASS	○ WHITE
16-4012-1000				○ WHITE	● YELLOW		

4000 range


MOMENTARY



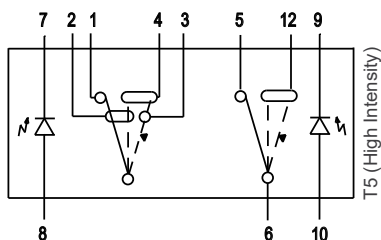
Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

-  0 POSIZIONE STABILE
0 MAINTAINED POSITION
-  1 POSIZIONE INSTABILE
1 MOMENTARY POSITION






P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100998	2	12V		Automatic wheels alignment	Research	BRASS	○ WHITE
1100999	2	24V		○ WHITE	● YELLOW		
17-4049-1000							

MOMENTARY




Schema elettrico rappresentato in posizione 0
Circuit diagram shown in position 0

-  0 POSIZIONE STABILE
0 MAINTAINED POSITION
-  1 POSIZIONE STABILE
1 MAINTAINED POSITION
-  2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



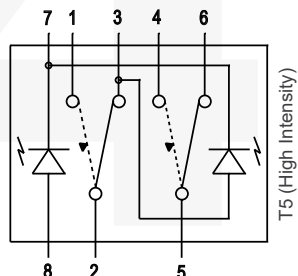
GS0027

P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100990	2	12V		Rear window washer and wiper ISO 7000 (0098)	Research	BRASS	○ WHITE
1100991	2	24V		○ WHITE	● YELLOW		
16-4021-1100							

4000 range

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



0 POSIZIONE INSTABILE
0 MOMENTARY POSITION

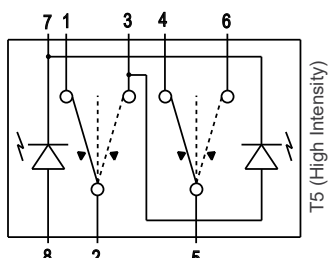
1 POSIZIONE STABILE
1 MAINTAINED POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1101018 17-4022-1000	2	12V		Windscreen wiper speed 1 ○ WHITE	Windscreen wiper speed 2 ● YELLOW	BRASS	○ WHITE

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

0 POSIZIONE STABILE
0 MAINTAINED POSITION

2 POSIZIONE INSTABILE
2 MOMENTARY POSITION

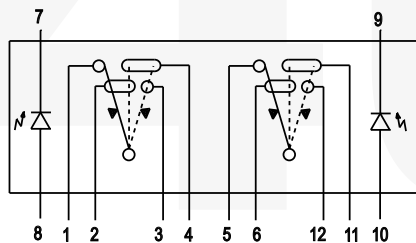



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1101016 17-4002-1000	2	12V		Low beam, dipped beam ISO 7000 (0083) ○ WHITE	High beam, main beam ISO 7000 (0082) ● YELLOW	BRASS	○ WHITE


4000 range

MOMENTARY

Schema elettrico rappresentato in posizione 1
Circuit diagram shown in position 1



 1 POSIZIONE INSTABILE
1 MOMENTARY POSITION

 0 POSIZIONE STABILE
0 MAINTAINED POSITION

 2 POSIZIONE INSTABILE
2 MOMENTARY POSITION



P/N	Pkg Q.ty	Power Supply	Key Symbol	Left Side LED Color ON	Right Side LED Color ON	Contact Finishing	Symbol Color (with LED OFF)
1100996	2	12V		Hand throttle down	Hand throttle up	BRASS	○ WHITE
1100997	2	24V		○ WHITE	○ WHITE		
17-4056-1000							

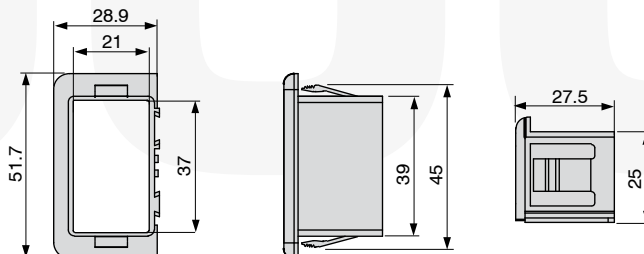
ACCESSORIES

ACCESSORIES - series **3000** and **3200**

Cornicetta modulare singola laterale
End modular bezel



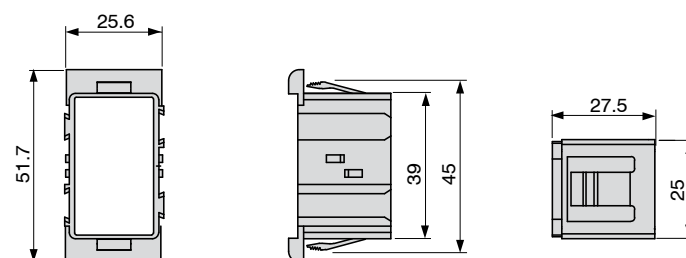
P/N	Q.ta Q.ty
1024730 16-700-006	150



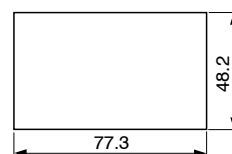
Cornicetta modulare singola centrale
Center modular bezel



P/N	Q.ta Q.ty
1024731 16-700-007	150



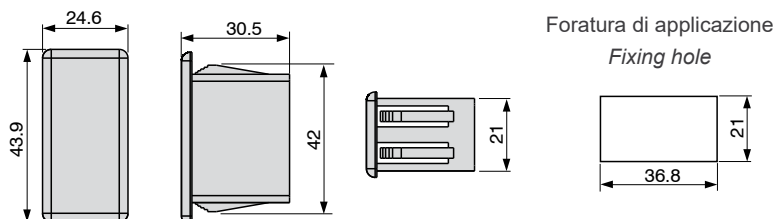
Foratura di applicazione per: 2 cornicette laterali + 1 cornicetta centrale
Fixing hole for: 2 end bezels + 1 center bezel



Tappo copertura
Cover



P/N	Q.ta Q.ty
1024729 16-700-004	100

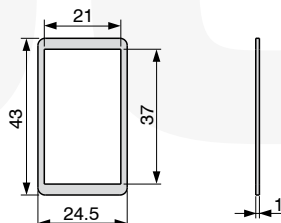


ACCESSORIES - series 3000 and 3200

Guarnizione
Gasket



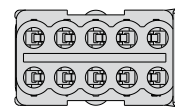
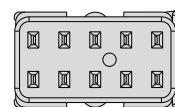
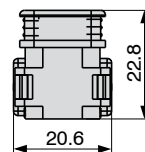
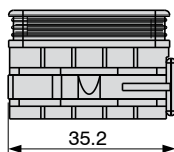
P/N	Q.ta Q.ty
1024206 16-600-039	100



Connettore AMP Econseal "J" 10 vie
AMP Econseal "J" 10 pins connector



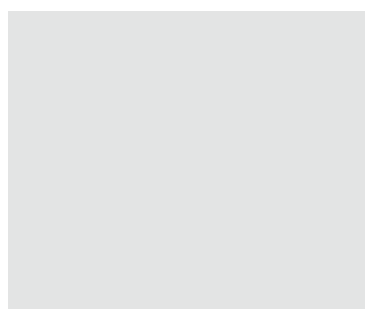
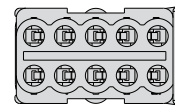
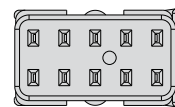
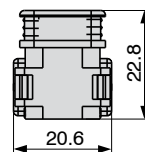
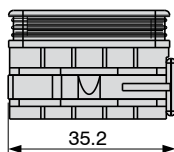
P/N	Q.ta Q.ty
1030059 3004227 30-16-06870	10 250



OPTIONAL KIT Connettore AMP Econseal "J" 10 vie
AMP Econseal "J" 10 pins connector **OPTIONAL KIT**
(Includes: connector, rubber taps, terminals)



P/N	Q.ta Q.ty
1028517 27-0904-0000	1



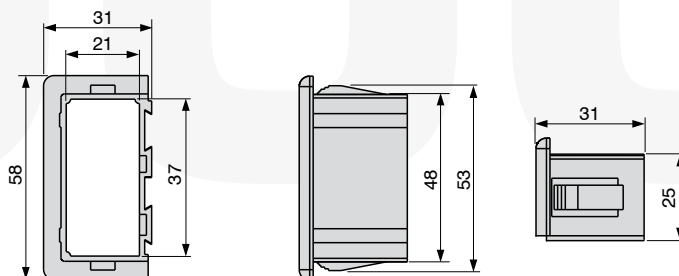
P/N	Q.ta Q.ty

ACCESSORIES - series 4000

Cornicetta modulare singola laterale
End modular bezel



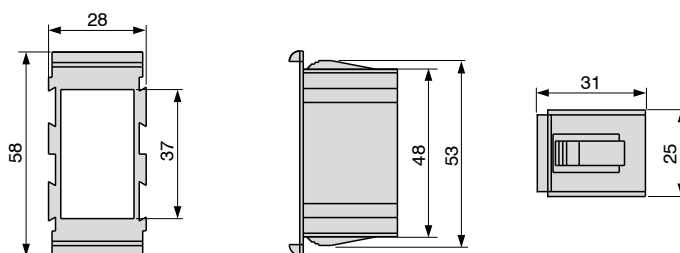
P/N	Q.ta Q.ty
1024200	10
1024201	150
16-600-036	



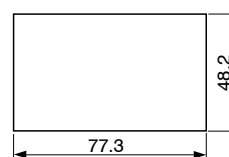
Cornicetta modulare singola centrale
Center modular bezel



P/N	Q.ta Q.ty
1024202	10
1024203	150
16-600-037	



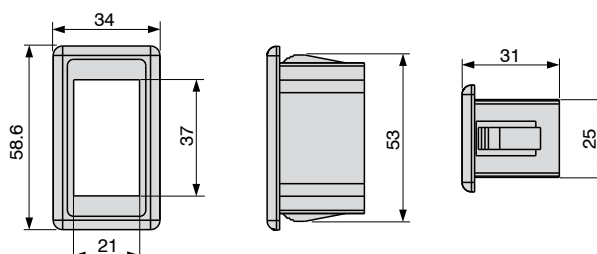
Foratura di applicazione per: 2 cornicette laterali + 1 cornicetta centrale
Fixing hole for: 2 end bezels + 1 center bezel



Cornicetta singola
Single bezel



P/N	Q.ta Q.ty
1024198	10
1024199	100
16-600-035	

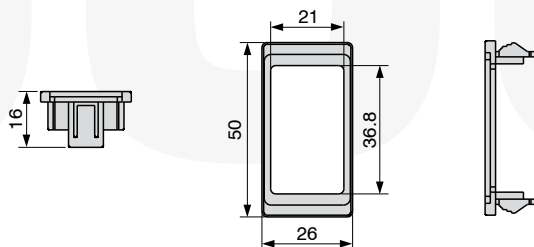


ACCESSORIES - series 4000

Adattatore per foratura 22 x 44 mm
Adapter for fixing hole 22 x 44 mm



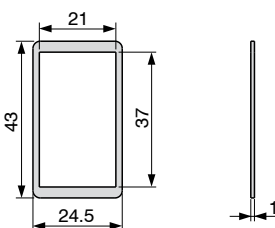
P/N	Q.ta Q.ty
1024194	30
1024195	150
16-600-020	



Guarnizione
Gasket



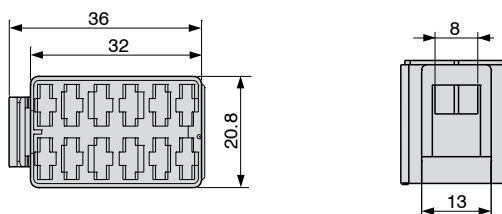
P/N	Q.ta Q.ty
1024206	100
16-600-039	



Connettore serie 6,35 mm con linguetta 12 vie
12 pins connector 6.35 mm series with tab



P/N	Q.ta Q.ty
1024716	100
16-650-003	



Atrezzo per rimuovere i tasti
Tool for rocker switch removal



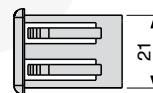
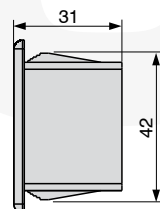
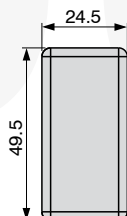
P/N	Q.ta Q.ty
1021722	1
16-0600-0170	

ACCESSORIES - series 4000

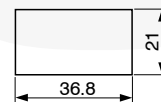
Tappo copertura
Cover



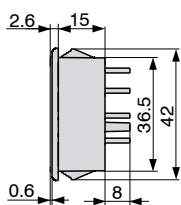
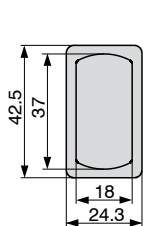
P/N	Q.ta Q.ty
1024204	10
1024205	150
16-600-038	



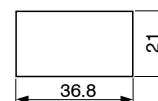
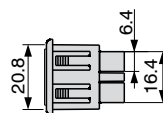
Foratura di applicazione
Fixing hole

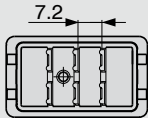
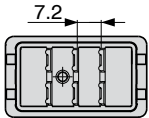
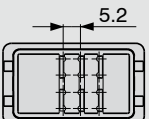
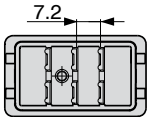
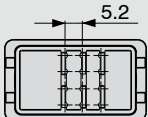


Tappo copertura (con lamelle plastiche)
Cover (with dummy plastic blades)



Foratura di applicazione
Fixing hole



P/N	Q.ta Q.ty	Colore tappo Cap color	Vista posteriore Rear view
1023394 1023395 16-1400-0012	10 150	BLACK	
1023402 16-1400-0900	100	BLACK with GASKET	
1023397 1023398 16-1400-0800	10 150	BLACK	
1023399 1023400 16-1400-0801	10 150	GRAY	
1023401 16-1400-0802	150	GRAY	

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