



HMI

Human-Machine Interface
DEVICES



FINGERTIP

JOYSTICK CONTROLLERS

- Design compatto per una facile installazione sopra i pannelli
- Disposizione in parallelo nel minor spazio possibile di installazione
- L'angolo dell'attuatore e l'area di appoggio del dito progettate per una migliore ergonomia
- Testato per 5 milioni di cicli
- Tecnologia sensore Hall-effect
- Grado di protezione IP66 durante l'utilizzo
- Uscita ridondata per sicurezza
- Cover colorate intercambiabili
- Simboli retroilluminati
- 4 Posizioni leva

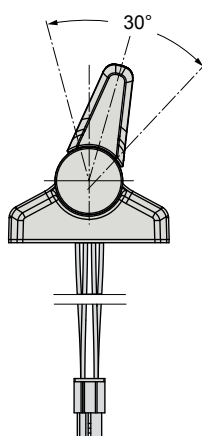
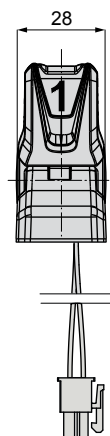
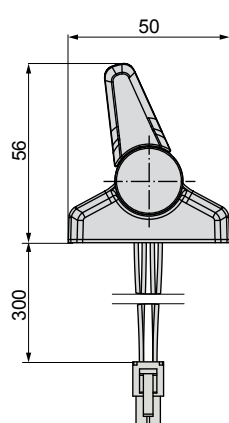
- *Compact design for simple "on top" installation in control panels*
- *Parallel arrangement in the tightest installation spaces possible*
- *Angled actuator finger rest for optimum ergonomics*
- *Rated for 5 million cycles*
- *Hall-effect sensor technology*
- *Sealed to IP66 in use*
- *Redundant output for safety*
- *Interchangeable colored covers*
- *Backlit symbols*
- *4 Lever positions*

SPECIFICHE TECNICHE

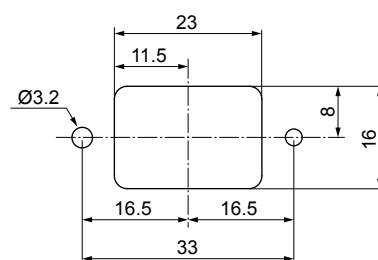
Technical specifications

- Alimentazione: 5V
- Connettore: MOLEX MINI-FIT 4 e 6 vie
- Assorbimento di corrente: 20mA @ 5V
- Singola uscita analogica
- Doppia uscita analogica semi ridondante
- Doppia uscita analogica ridondante
- Inversione di polarità: protetto
- Grado di protezione:
parte superiore IP66+9
parte inferiore IP54
- Cover estetico colorato
- Simboli intercambiabili
- Simboli retroilluminati - LED bianco
- Temperatura di funzionamento: - 40° C ÷ + 85° C
- Compatibilità elettromagnetica (EMC): DIN EN ISO 13309 - 13766

- *Power supply: 5V*
- *Connector: MOLEX MINI-FIT 4 and 6 ways*
- *Current consumption: 20mA @ 5V*
- *Single analogue output*
- *Dual analogue output semi redundant*
- *Dual analogue output redundant*
- *Load dump: protected*
- *Sealing degree:*
upper part IP66+9
lower part IP54
- *Aesthetic colored cover*
- *Interchangeable symbols*
- *Backlit symbols - white LED*
- *Operating temperature: - 40° C ÷ + 85° C*
- *Electromagnetic compatibility (EMC): DIN EN ISO 13309 - 13766*



Foratura di applicazione
Fixing hole





Simboli retroilluminati
Backlit symbols



Simboli retroilluminati - LED bianco
Backlit symbols - white LED

Cover estetico colorato
Aesthetic colored cover
ANSI Z535

P/N	P/N
 1083700 42.0139.0020 Pkg Q.ty: 10	 1083706 42.0139.0026 Pkg Q.ty: 10
 1083701 42.0139.0021 Pkg Q.ty: 10	 1083707 42.0139.0027 Pkg Q.ty: 10
 1083702 42.0139.0022 Pkg Q.ty: 10	 1083708 42.0139.0028 Pkg Q.ty: 10
 1083703 42.0139.0023 Pkg Q.ty: 10	 1083709 42.0139.0029 Pkg Q.ty: 10
 1083704 42.0139.0024 Pkg Q.ty: 10	 1083710 42.0139.0030 Pkg Q.ty: 10
 1083705 42.0139.0025 Pkg Q.ty: 10	

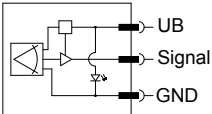
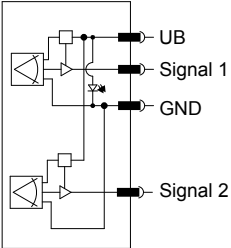
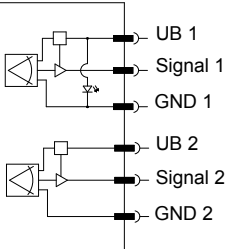


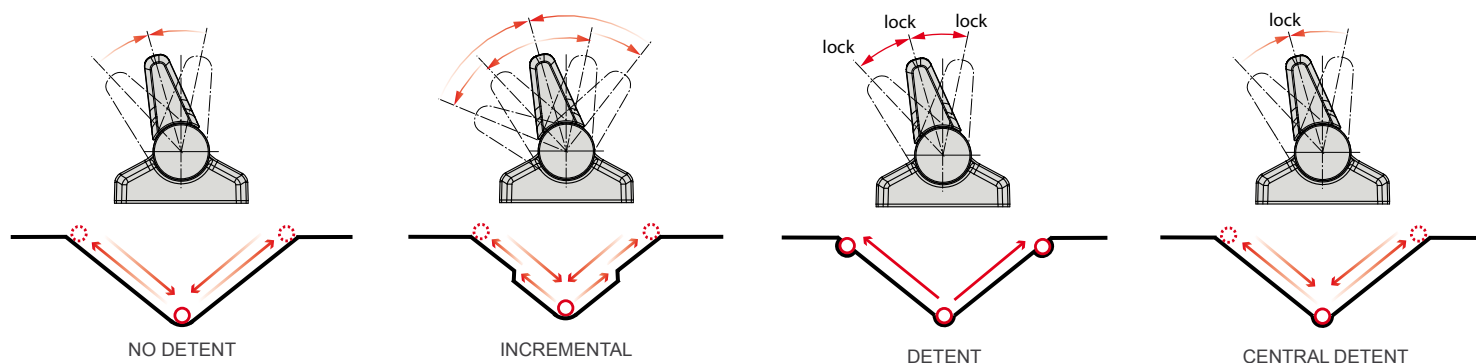
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Safety RED  1083711 42.0139.0040 Pkg Q.ty: 5
Safety ORANGE  1083712 42.0139.0044 Pkg Q.ty: 5
Safety YELLOW  1083713 42.0139.0045 Pkg Q.ty: 5
Safety GREEN  1083714 42.0139.0046 Pkg Q.ty: 5
Safety BLUE  1083715 42.0139.0047 Pkg Q.ty: 5
Safety PURPLE  1083716 42.0139.0048 Pkg Q.ty: 5
Safety WHITE  1083717 42.0139.0049 Pkg Q.ty: 5
Safety BLACK  1083718 42.0139.0050 Pkg Q.ty: 5



FINGERTIP

JOYSTICK CONTROLLERS

P/N	Posizioni leva Toggle position	Uscita Output	Schema elettrico Wiring diagram	Connettore cablaggio Pigtail connector	Connettore controparte Mating connector
1078788 42.0139.1000	NO DETENT				
1079439 42.0139.2000	INCREMENTAL	Singola uscita analogica		 MINI-FIT 4 vie / 4 ways: Connettore / Connector P/N COBO 3009542 (XE0801968) P/N MOLEX 39-01-2040	 MINI-FIT 4 vie / 4 ways: Connettore controparte Mating connector P/N COBO 1083473 (XE0801978) P/N MOLEX 39-01-2041
1079441 42.0139.3000	DETENT	Single analogue output			
1082414 42.0139.4000	CENTRAL DETENT				
1079443 42.0144.1000	NO DETENT				
1079445 42.0144.2000	INCREMENTAL	Doppia uscita analogica semi ridondante		 MINI-FIT 6 vie / 6 ways: Connettore / Connector P/N COBO 3009543 (XE0801969) P/N MOLEX 39-01-2060	 MINI-FIT 6 vie / 6 ways: Connettore controparte Mating connector P/N COBO 1083474 (XE0801979) P/N MOLEX 39-01-2061
1079447 42.0144.3000	DETENT	Single analogue output semi redundant			
1082416 42.0144.4000	CENTRAL DETENT				
1079449 42.0145.1000	NO DETENT				
1079451 42.0145.2000	INCREMENTAL	Doppia uscita analogica ridondante			OPTIONAL KIT Connettore controparte Mating connector P/N COBO 1083587 (27.1035.0000)
1079453 42.0145.3000	DETENT	Dual analogue output redundant			
1082419 42.0145.4000	CENTRAL DETENT				



KEYPAD CAN BUS

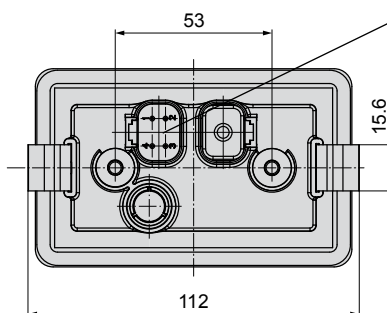
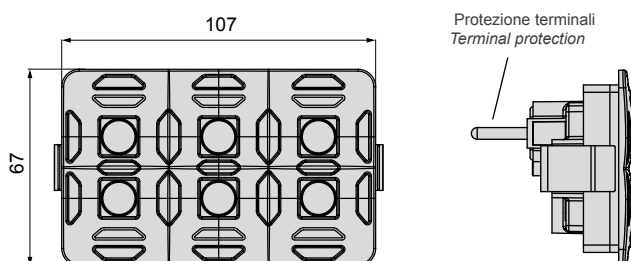
6 funzioni e simboli retroilluminati / 6 functions and backlit symbols

SPECIFICHE TECNICHE

Technical specifications

- Alimentazione: 8 - 32V
- Connettore: DEUTSCH 4 vie a tenuta
- Protezione terminali
- Connessione: doppio CAN BUS
- Grado di protezione: IP67 parte superiore quando installato
- Fissaggio dall'alto: molle o perni filettati M5
- 6 funzioni: LED rgb (rosso, verde, blu, ambra)
- Simboli retroilluminati - LED bianco
- Simboli intercambiabili
- Temperatura di funzionamento: - 40° C ÷ + 85° C

- Power supply: 8 - 32V
- Connector: DEUTSCH 4 ways sealed
- Terminal protection
- Connection: dubble CAN BUS
- Sealing degree: IP67 top portion when installed
- Top fixed: springs or M5 threaded pivots
- 6 functions: rgb LED (red, green, blue, orange)
- Backlit symbols - white LED
- Interchangeable symbols
- Operating temperature: - 40° C ÷ + 85° C

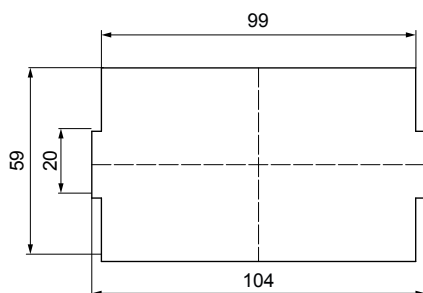


DEUTSCH 4 vie / 4 ways:
Connettore / Connector
P/N COBO 3009652 (XE0802530)
Connettore controparte
Mating connector
P/N COBO 3009671 (XE0802574)

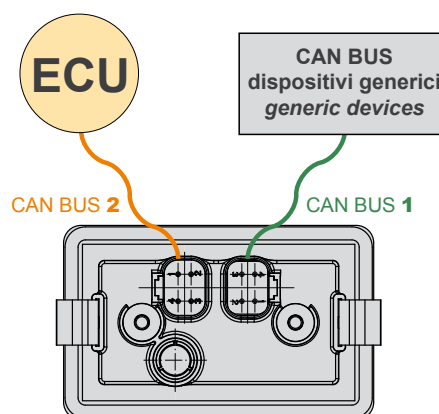
OPTIONAL KIT
Connettore controparte
Mating connector
P/N COBO 1028522 (27.0907.0000)



Foratura di applicazione
Fixing hole

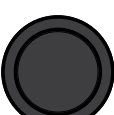


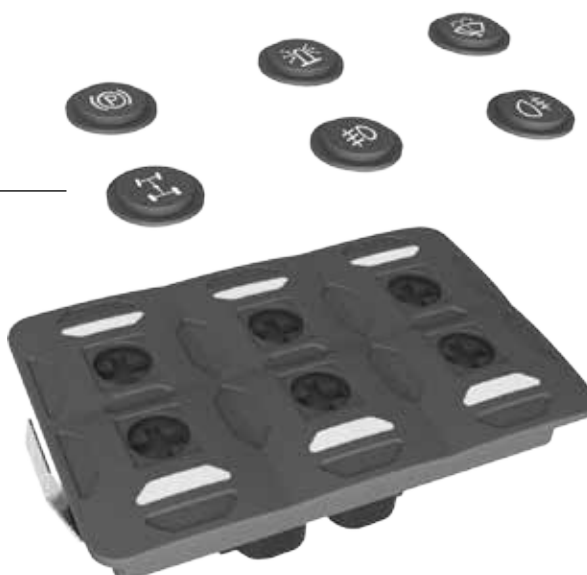
KEYPADS
modulabili / modular



vista posteriore KEYPAD
KEYPAD rear view

Simboli retroilluminati - LED bianco
Backlit symbols - white LED

	P/N 2132637 32.0390.0020		P/N 2132645 32.0390.0026
	2132638 32.0390.0021		2132646 32.0390.0027
	2132640 32.0390.0022		2132647 32.0390.0028
	2132641 32.0390.0023		2132648 32.0390.0029
	2132643 32.0390.0024		2132649 32.0390.0030
	2132644 32.0390.0025		2129800 32.0390.0003



P/N	Pkg Q.ty
1082026 32.0390.0000	1
1082027 32.0390.0000	5

**color LED rgb customizable
by CAN BUS**



KEYPAD B-MMI

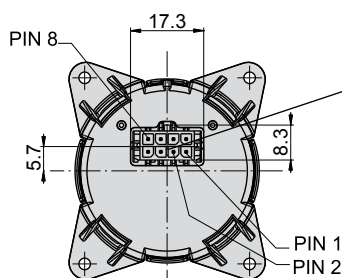
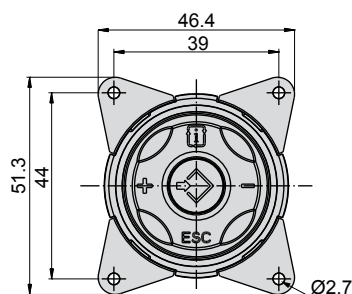
5 funzioni e simboli retroilluminati / 5 functions and backlit symbols

SPECIFICHE TECNICHE

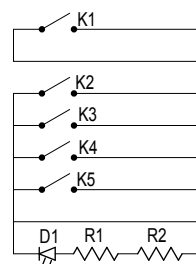
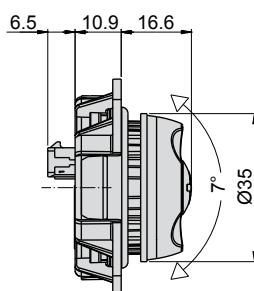
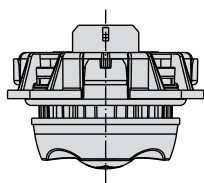
Technical specifications

- Alimentazione: 12V
- Connettore: MOLEX MICRO-FIT 8 vie
- Grado di protezione: IP54
- Fissaggio posteriore: 4 viti
- 5 funzioni: + COMMAND, - COMMAND, INFO, ENTER, ESCAPE
- Simboli retroilluminati - LED bianco
- Temperatura di funzionamento: - 40° C ÷ + 70° C

- Power supply: 12V
- Connector: MOLEX MICRO-FIT 8 ways
- Sealing degree: IP54
- Back fixed: 4 screws
- 5 functions: + COMMAND, - COMMAND, INFO, ENTER, ESCAPE
- Backlit symbols - white LED
- Operating temperature: - 40° C ÷ + 70° C



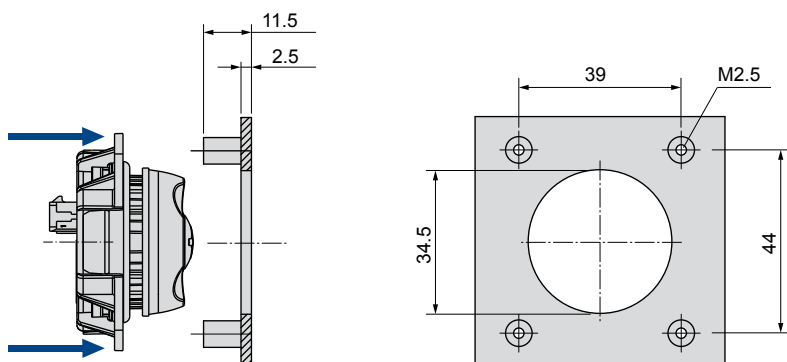
MICRO-FIT 8 vie / 8 ways:
Connettore / Connector
P/N COBO **3035076** (XE0806661)
P/N MOLEX 43045-0818
Connettore controparte
Mating connector
P/N COBO **3022970** (XE0801863)
P/N MOLEX 43025-0800





P/N	Pkg Q.ty
1078094 34.0209.0000	1
1076496 34.0209.0000	30

Foratura di applicazione
Fixing hole



KEYPAD B-MMI AESTHETICAL

5 funzioni e simboli retroilluminati / 5 functions and backlit symbols

SPECIFICHE TECNICHE

Technical specifications

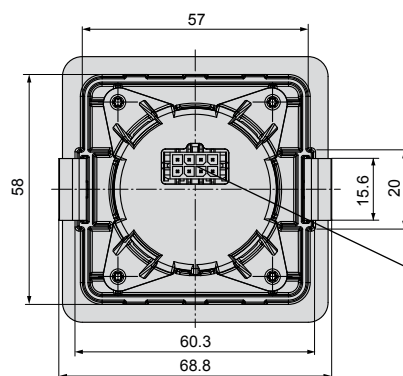
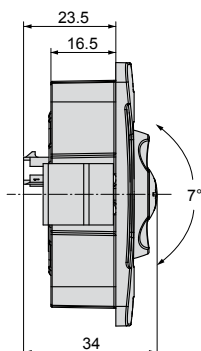
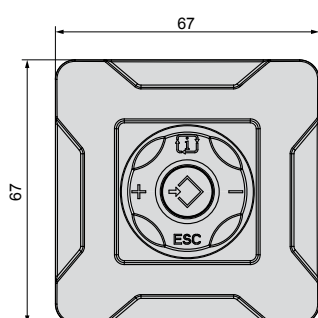
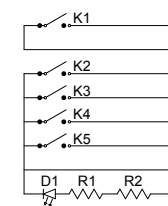
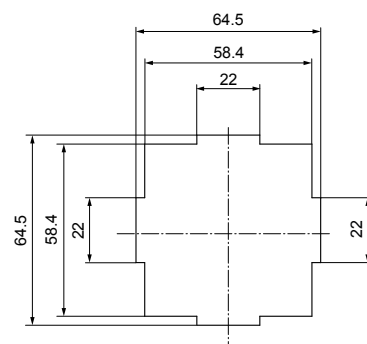
- Alimentazione: 12V
- Connettore: MOLEX MICRO-FIT 8 vie
- Grado di protezione: IP54
- Fissaggio posteriore: molle o perni filettati M5
- 5 funzioni: + COMMAND, - COMMAND, INFO, ENTER, ESCAPE
- -Simboli retroilluminati - LED bianco
- Temperatura di funzionamento: - 40° C ÷ + 70° C
- Power supply: 12V
- Connector: MOLEX MICRO-FIT 8 ways
- Sealing degree: IP54
- Back fixed: springs or M5 threaded pivots
- 5 functions: + COMMAND, - COMMAND, INFO, ENTER, ESCAPE
- Backlit symbols - white LED
- Operating temperature: - 40° C ÷ + 70° C

Versione fissaggio a molle Springs fixing version

P/N	Pkg Q.ty
1081635 34.0217.0000	1



Foratura di applicazione Fixing hole



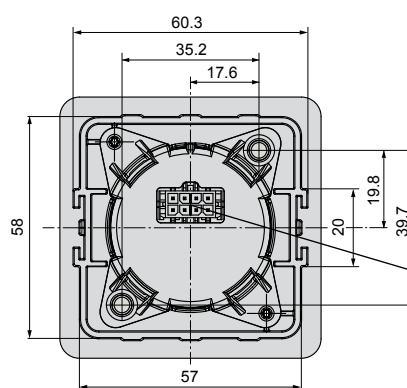
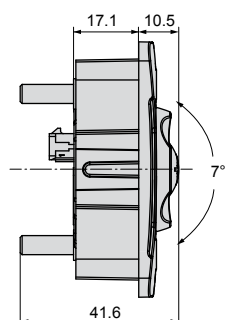
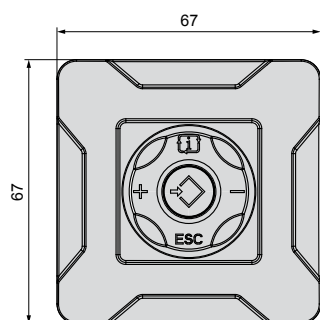
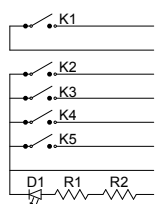
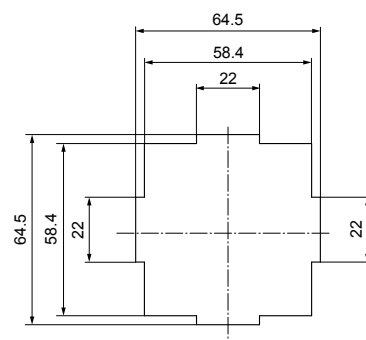
MICRO-FIT 8 vie / 8 ways:
Connettore / Connector
P/N COBO 3035076 (XE0806661)
P/N MOLEX 43045-0818
Connettore controparte
Mating connector
P/N COBO 3022970 (XE0801863)
P/N MOLEX 43025-0800

Versione fissaggio a perni filettati M5
M5 threaded pivots fixing version

P/N	Pkg Q.ty
1081132 34.0216.0000	1



Foratura di applicazione
Fixing hole



MICRO-FIT 8 vie / 8 ways:
Connettore / Connector
P/N COBO **3035076** (XE0806661)
P/N MOLEX 43045-0818
Connettore controparte
Mating connector
P/N COBO **3022970** (XE0801863)
P/N MOLEX 43025-0800

CAN BUS GATE

B-MMI DEVICE

SPECIFICHE TECNICHE

Technical specifications

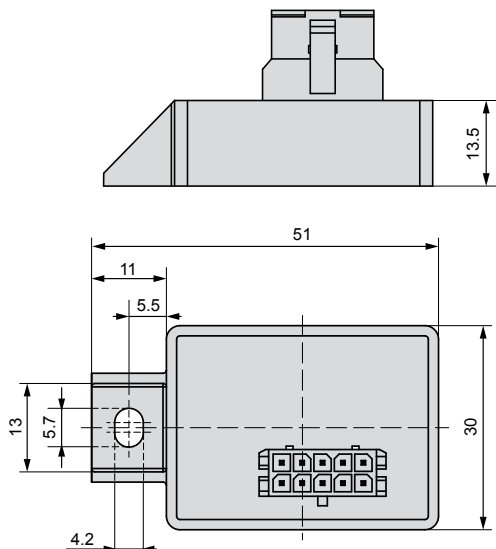
- Alimentazione: 8-32V
- Connettore: MOLEX MINI-FIT 10 vie
- Grado di protezione: IP40
- 5 segnali analogici
- Segnale CAN BUS
- Temperatura di funzionamento: - 40° C ÷ + 70° C

- Power supply: 8-32V
- Connector: MOLEX MINI-FIT 10 ways
- Sealing degree: IP40
- 5 analog signals
- CAN BUS signal
- Operating temperature: - 40° C ÷ + 70° C

P/N	Pkg Q.ty
1080958 34.0215.0000	50



MINI-FIT 10 vie / 10 ways:
Connettore / Connector
P/N COBO **3009866** (XE0803744)
P/N MOLEX SD-43045-1018
Connettore controparte
Mating connector
P/N COBO **3009999** (XE0804153)
P/N MOLEX SD-43025-1000



PIN - OUT		LAYOUT CONNETTORE CONNECTOR LAYOUT	
PIN	FUNCTION		
1	MASSA veicolo	6	1
2	CAN H	7	2
3	CAN L	8	3
4	+ KEY	9	4
5	OUT pilot. LED	10	5
6	SWITCH 1		
7	SWITCH 2		
8	SWITCH 3		
9	SWITCH 4		
10	SWITCH 5		

TPR

Touch Push Rotate

**coming soon
2018**



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