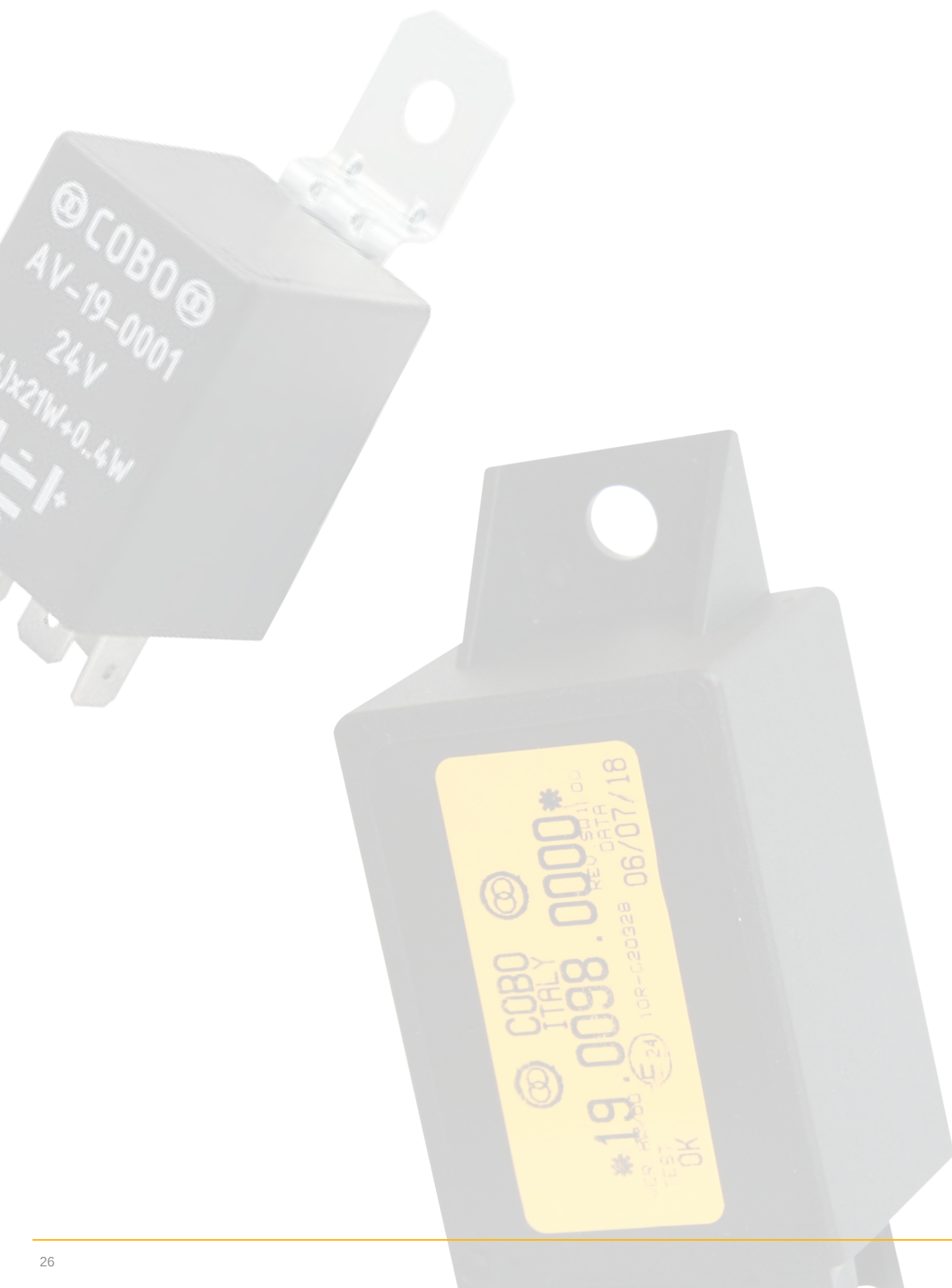


ELECTRONIC FLASHERS

	<i>da pagina from page</i>
ELECTRONIC FLASHERS.....	28-31-40
POWER ELECTRONIC FLASHERS.....	30
ELECTRONIC FLASHERS FOR LED.....	34
ELECTRONIC FLASHERS FOR LED AND BULBS.....	36
ELECTRONIC FLASHERS ISO 13207-1 ; NASO SAE 279/18.....	38
INTELLIGENT FAILURE DETECTOR FOR LED	42



Questi dispositivi vengono usati per pilotare gli indicatori di direzione di un veicolo.

I flashers COBO sono esclusivamente di tipo elettronico, cioè utilizzano dispositivi attivi come transistor, circuiti integrati o microprocessori

Si differenziano in base a vari parametri:

- tensione di funzionamento che può essere per impianti a 12V, 24V nominali
- tipo di carico: può essere solo lampade ad incandescenza, solo LED a stato solido, entrambi
- carico in W : ad esempio per 2, 4, 6 o più lampade o LED; per un massimo totale di potenza specificato
- presenza o meno del pilotaggio della spia di segnalazione, in genere di potenza limitata a qualche Watt.
- possibilità di gestire l'hazard, cioè il lampeggio contemporaneo di tutte le uscite

I modelli specifici ISO 13207-1 permettono l'utilizzo di fanali con lampade ad incandescenza o fanali a led, oppure un mix di entrambe le tecnologie mantenendo il controllo della diagnostica del corretto funzionamento dei fanali

Modelli specifici NASO per il mercato USA.

These devices are used to drive the vehicle direction indicators.

COBO flashers are electronics only, since they use active devices as transistors, integrated circuit and/or microprocessors.

Electronic flashers differ in:

- *supply voltage, generally 12V or 24V DC nominal*
- *load type: bulbs only, LEDs only, mixed*
- *maximum load in Watt: for a maximum specified load, or for 2, 4, 6, or more bulbs or LED*
- *possibility to drive a cab/dashboard indicator, generally limited to a few Watt*
- *hazard management, i.e. simultaneous blinking of all loads*

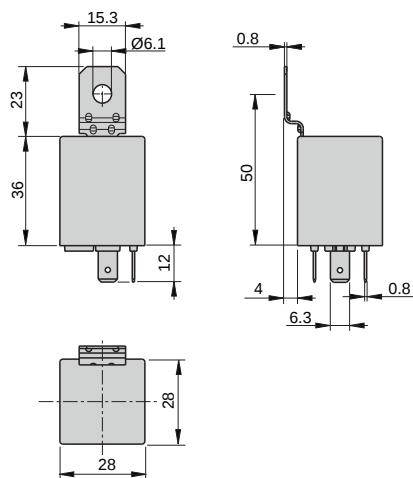
Specific models that comply to ISO13207-1 allow the use of bulb indicators, LED indicators, and a mix of both technologies keeping the diagnosis of the correct working of indicators.

Specific models that comply to NASO are available for the US market.

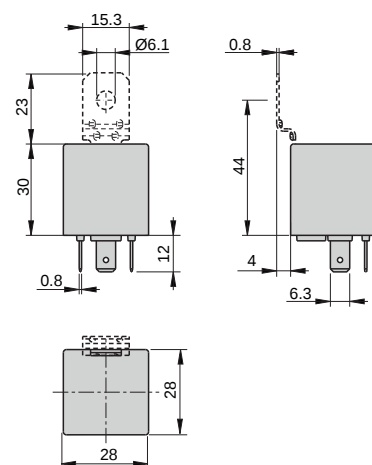
Electronic Flashers



Type
A



Type
B



P/N	Q.ta Q.ty	Staffa Bracket	Type	Alimentazione Power Supply	Carico Nominale Rated Load	Versioni Versions	Basetta Connection Board	Schema Elettrico Wiring diagram
-----	--------------	-------------------	------	-------------------------------	----------------------------------	----------------------	--------------------------------	------------------------------------

OLD P/N

1090517
1090518
19-055-000

1
30

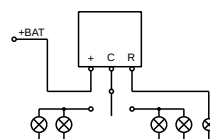
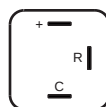
X

A

12V

2 x 21W
+ 0...4W

3
wires



1027262
1027263
19-055-000

1027247
19-0086-0000

1027256
19-0092-0000

1003723
AV-19-0006

1090913
1090914
19-056-000

1
30

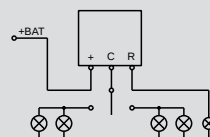
X

A

24V

2 x 21W
+ 0...4W

3
wires



1027265
1027266
19-056-000

1090916
19-0085-0000

1

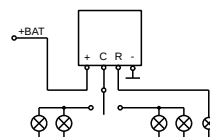
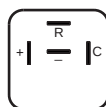
X
to be
assembled

B

12V

2 (4) x 21W
+ 0...4W

4
wires



1027245 19-0085-0000
1027249 19-0087-0000

1090915
AV-19-0001

1

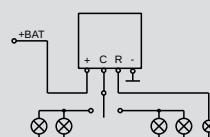
X

A

24V

2 (4) x 21W
+ 0...4W

4
wires



1003720
AV-19-0001

1094375
19-0108-0000

1

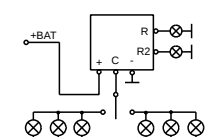
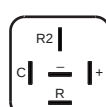
X
to be
assembled

A

12V

2+1 (6) x
21W
+ (2) 0...4W

5
wires

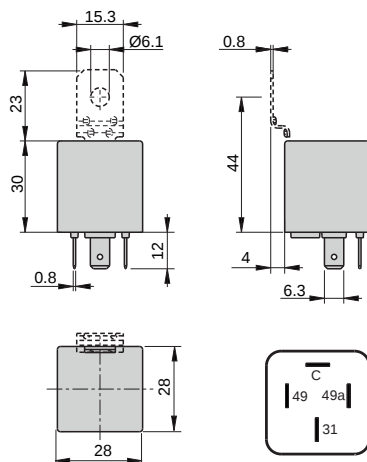


1090912 AV-19-0008
1003725 AV-19-0008
1003727 AV-19-0009

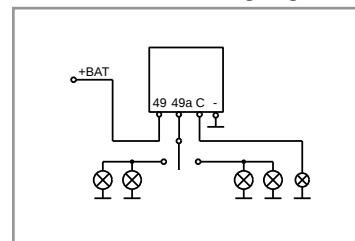
Electronic Flashers

SPECIFICHE TECNICHE Technical data		
TENSIONE NOMINALE Rated voltage	12V	24V
LIMITI DI FUNZIONAMENTO Operating voltage	10 ÷ 16V	20 ÷ 28V
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-30°C ÷ 85°C	-30°C ÷ 85°C
TEMPERATURA DI STOCCAGGIO Storage temperature	Max 110°C	Max 110°C
FREQUENZA LAMPEGGIO Flashing frequency	85 ± 15 c / m	85 ± 15 c / m
SOVRATENSIONI TEMPORANEE Temporary overvoltage	24V 60 sec 18V 60 min	32V 60 sec 30V 60 min
INVERSIONE POLARITA' Reversed voltage	- 13V 60 sec	- 26V 60 sec
ISOLAMENTO Insulation resistance	500V 50Hz - 60 sec	500V 50Hz - 60 sec
DURATA Lifetime	10 sec ON - 50 sec OFF at 23°C for 350h	10 sec ON - 50 sec OFF at 23°C for 350h
MATERIALI - Material		
BASETTA Baseplate	PA 6 GF30 Black	PA 6 GF30 Black
COPERCHIO Housing	PA 66 GF30 Black	PA 66 GF30 Black
TERMINALI Terminals	OT 63 Cu Sn 5 µm	OT 63 Cu Sn 5 µm
STAFFA Bracket	EN 10130 DC01 RoHS Zn Lanthane 7 µm	EN 10130 DC01 RoHS Zn Lanthane 7 µm

Power Electronic Flashers



Schema Elettrico - Wiring diagram



P/N	Q.ta Q.ty	Staffa Bracket	Alimentazione Power Supply	Carico Nominale Rated Load	Versioni Versions
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1089865	1	X	24V	10W ÷ 200W	5
1089869	50	to be assembled			wires
19-0102-0000					

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SPECIFICHE TECNICHE Technical data	
---------------------------------------	--

TENSIONE NOMINALE Rated voltage	24V
------------------------------------	-----

LIMITI DI FUNZIONAMENTO Operating voltage	18 ÷ 30V
--	----------

TENSIONE DI AGGANCIO Operate voltage	≤ 18V
---	-------

CADUTA DI TENSIONE Voltage drop	≤ 50mV
------------------------------------	--------

TENSIONE DI PROVA Test voltage	26V ± 0,2V
-----------------------------------	------------

TEMPERATURA DI COLLAUDO Test temperature	-20°C ± 2°C
--	-------------

TEMPERATURA DI FUNZIONAMENTO Operating temperature	-40°C ÷ 80°C
--	--------------

TEMPERATURA DI STOCCAGGIO Storage temperature	110°C @ 2h
---	------------

FREQUENZA LAMPEGGIO Flashing frequency	85 ± 5 imp / min
---	------------------

DURATA TEST Lifetime test	200h @ Rated Load 36h @ Hazard Load
------------------------------	--

TEST DI SOVRATENSIONE Overvoltage test	42V for 1 min @ Rated Load 36V for 60 min @ Rated Load
---	---

GRADO DI PROTEZIONE Protection degree	IP54
--	------

MATERIALI - Material	
----------------------	--

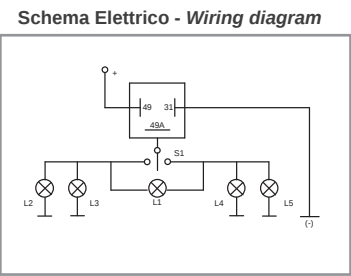
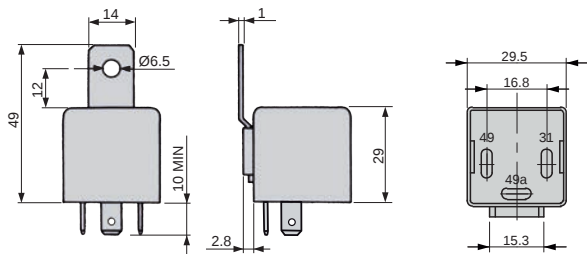
BASETTA Baseplate	PA 6,6 GF30 Black
----------------------	-------------------

COPERCHIO Housing	PA 6,6 GF30 Black
----------------------	-------------------

TERMINALI Terminals	CuZn Sn 5 µm
------------------------	-----------------

STAFFA Bracket	EN 10130 DC01 RoHS Zn Lanthane 7 µm
-------------------	--

Electronic Flashers

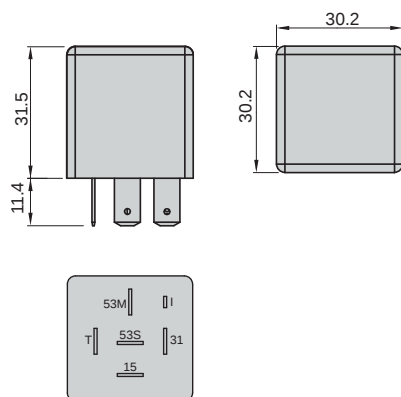


P/N	Q.ta Q.ty	Staffa Bracket	Alimentazione Power Supply	Carico Nominale Rate Load
-----	--------------	-------------------	-------------------------------	------------------------------

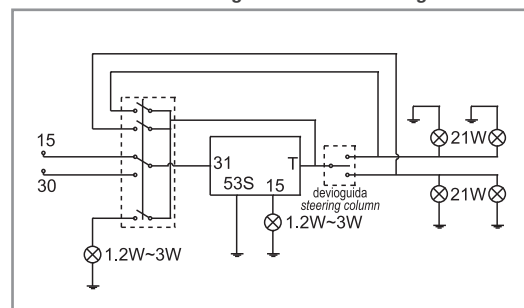
1003729	1			
1003730	50	X	12V	3 - 92W
AV-19-0011				

SPECIFICHE TECNICHE Technical data	
TENSIONE NOMINALE Rated voltage	12V
LIMITI DI FUNZIONAMENTO Operating voltage	10 ÷ 16V
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-30°C ÷ 90°C
SOVRATENSIONI TEMPORANEE Operate voltage	18V 1 hour 24V 1 min
RESISTENZA ALLE VIBRAZIONI Vibration resistance	5Hz ÷ 100Hz
SOVRATENSIONI TEMPORANEE Temporary overvoltage	24V 60 sec 18V 60 min
ISOLAMENTO Insulation resistance	500V 50Hz

Electronic Flashers



Schema di Collegamento - Circuit diagram



P/N	Q.ta Q.ty	Staffa Bracket	Alimentazione Power Supply
-----	--------------	-------------------	-------------------------------

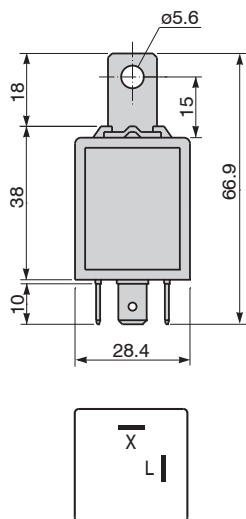
1005989	1	-	12V
1005990	50	-	12V
00105013			

1005991	1	-	24V
1005992	50	-	24V
00105014			

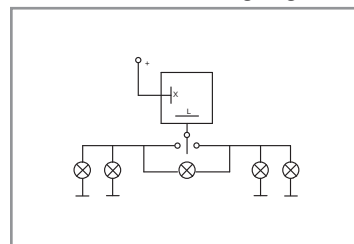
SPECIFICHE TECNICHE - Technical data

TENSIONE NOMINALE Rated voltage	12V	24V
LIMITI DI FUNZIONAMENTO Operating voltage	9 ÷ 16V	18 ÷ 32V
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-30°C ÷ 70°C	-30°C ÷ 70°C
GRADO DI PROTEZIONE Sealing degree	IP54	IP54
CARICO MASSIMO Max power	4 x 21W + 1 x 3W	4 x 21W + 1 x 3W
CORRENTE ASSORBITA IN STAND-BY KEY OFF Power consumption stand-by key off	< 1mA	< 1mA

Electronic Flasher



Schema Elettrico - Wiring diagram



P/N	Q.ta Q.ty	Staffa Bracket	Alimentazione Power Supply	Carico Nominale Rated Load
-----	--------------	-------------------	-------------------------------	-------------------------------

1086908 AV-19-0026	1	X	12V	180W
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SPECIFICHE BOBINA - Coil data	
-------------------------------	--

TENSIONE NOMINALE Rated voltage	12V
------------------------------------	-----

LIMITI DI FUNZIONAMENTO Operating voltage	10 ÷ 15V
--	----------

TENSIONE DI PROVA Test voltage	13V ± 0,2V
-----------------------------------	------------

TEMPERATURA DI COLLAUDO Test temperature	+20°C ± 2°C
---	-------------

SPECIFICHE CONTATTI - Contact data	
------------------------------------	--

CARICO NOMINALE Switch power	0,1...180W @ Up
---------------------------------	--------------------

CARICO MASSIMO Max power	180W
-----------------------------	------

FREQUENZA LAMPEGGIO Flashing frequency	80 min ± 10%
---	-----------------

ALTRE SPECIFICHE - Other data	
-------------------------------	--

TEMPERATURA DI FUNZIONAMENTO Operating temperature	-40°C ÷ 80°C
---	--------------

TEMPERATURA DI STOCCAGGIO Storage temperature	+ 110°C / 2h
--	--------------

CONFORMITÀ
Conformity

ISO 7588
DIN 46244 - ISO 8092
EU Dir. 2020/95/EC RoHs
DIN 4050: IP 5K4

UNI EN ISO 9001-2000
DIR. 95/54 CE
R10 ECE-ONU/02

MATERIALI - Material	
----------------------	--

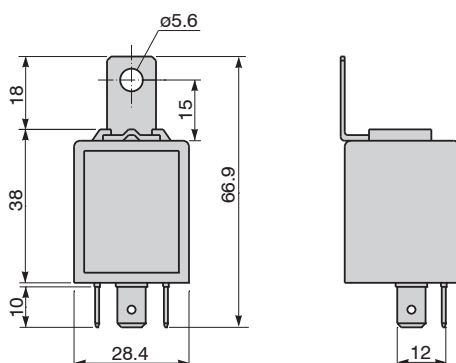
BASETTA Baseplate	Nylon Pa 6.6 +30% Gf Black
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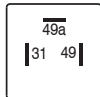
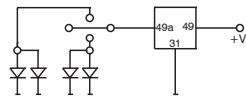
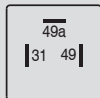
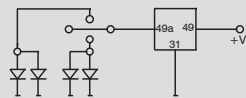
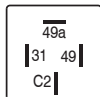
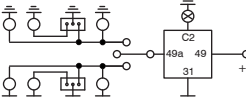
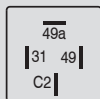
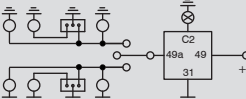
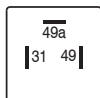
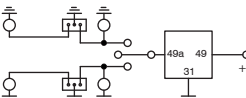
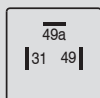
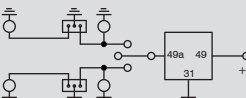
COPERCHIO Housing	Nylon Pa 6.6 +15% Gf Blue
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TERMINALI Terminals	CuZn
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STAFFA Bracket	Ck 67 Hardness 490±525 HV1
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Electronic Flashers for LED



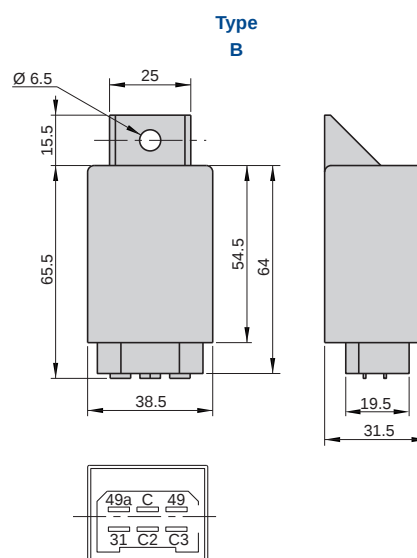
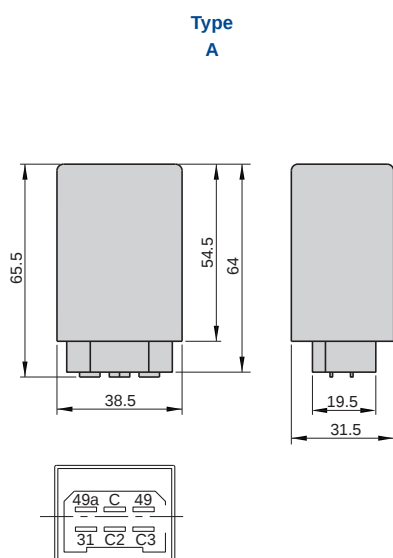
P/N	Q.ta Q.ty	Staffa Bracket	Alimentazione Power Supply	Carico Nominale Rated Load	Diagnostica Diagnostics	Basetta Connection Board	Schema Elettrico Wiring diagram
1027251 19-0089-0000	1	X	12V	30W	-		
1027253 19-0090-0000	1	X	24V	40W	-		
1003738 AV-19-0019	1	X	12V	140W	With device: Intelligent Failure Detector for LED P/N: 1003736		
1003740 AV-19-0020	1	X	24V	140W	With device: Intelligent Failure Detector for LED P/N: 1003736		
1003742 AV-19-0021	1	X	12V	90W	With device: Intelligent Failure Detector for LED P/N: 1003736		
1003744 AV-19-0022	1	X	24V	90W	With device: Intelligent Failure Detector for LED P/N: 1003736		

Electronic Flashers for LED

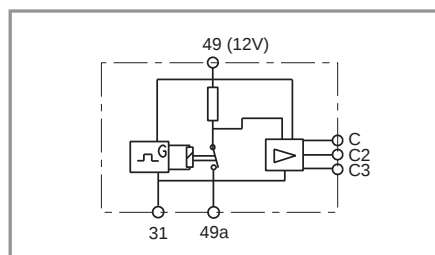
SPECIFICHE BOBINA - Coil data	P/N 1027251	P/N 1027253	P/N 1003738	P/N 1003740	P/N 1003742	P/N 1003744
TENSIONE NOMINALE Rated voltage	12V	24V	12V	24V	12V	24V
LIMITI DI FUNZIONAMENTO Operating voltage	10 ÷ 15V	18 ÷ 30V	10 ÷ 15V	20 ÷ 30V	10 ÷ 15V	20 ÷ 30V
TENSIONE DI PROVA Test voltage	13V ± 0,2V	26V ± 0,4V	13V ± 0,2V	26V ± 0,2V	13V ± 0,2V	26V ± 0,2V
TEMPERATURA DI COLLAUDO Test temperature	+20°C ± 2°C	+20°C ± 2°C	+20°C ± 2°C	+20°C ± 2°C	+20°C ± 2°C	+20°C ± 2°C
SPECIFICHE CONTATTI - Contact data						
CARICO NOMINALE Switch power	0,1...30W @ Up	0,1...40W @ Up	-	-	-	-
CARICO MASSIMO Max power	30W	40W	140W	140W	90W	90W
FREQUENZA LAMPEGGIO Flashing frequency	80 min ± 10%	80 min ± 10%	80 min ± 10%	80 min ± 10%	80 min ± 10%	80 min ± 10%
ALTRE SPECIFICHE - Other data						
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-40°C ÷ 80°C	-40°C ÷ 80°C	-40°C ÷ 80°C	-40°C ÷ 80°C	-40°C ÷ 80°C	-40°C ÷ 80°C
TEMPERATURA DI STOCCAGGIO Storage temperature	+ 110°C / 2h	+ 110°C / 2h	-	-	-	-
Led lamp characteristic for bulb compatible failure detection	-	-	ISO 13207-1 2012	ISO 13207-1 2012	ISO 13207-1 2012	ISO 13207-1 2012
Road vehicles - connections for on board electrical wiring harness	ISO 8092 DIN 46244	ISO 8092 DIN 46244	ISO 8092 DIN 46244	ISO 8092 DIN 46244	ISO 8092 DIN 46244	ISO 8092 DIN 46244
Terminal pointing downwards Water protection inside	DIN 4050 RATED IP 5K4	DIN 4050 RATED IP 5K4	DIN 4050 RATED IP 5K4	DIN 4050 RATED IP 5K4	DIN 4050 RATED IP 5K4	DIN 4050 RATED IP 5K4
COMPATIBILITÀ ELETTROMAGNETICA Electromagnetic compatibility	EMC ECE R10	EMC ECE R10	-	-	-	-
Use in combination with 1003736 (AV-19-0018)	-	-	EMC ECE R10 e24 compliance EU DIR 2002/95/EC	EMC ECE R10 e24 compliance EU DIR 2002/95/EC	EMC ECE R10 e24 compliance EU DIR 2002/95/EC	EMC ECE R10 e24 compliance EU DIR 2002/95/EC
MATERIALI - Material						
BASETTA Baseplate	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black
COPERCHIO Housing	Nylon Pa 6.6 +15% Gf Black	Nylon Pa 6.6 +15% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black	Nylon Pa 6.6 +30% Gf Black
TERMINALI Terminals	1,2 & 5 CuZn	1,2 & 5 CuZn	CuZn Sn	CuZn Sn	CuZn Sn	CuZn Sn
STAFFA Bracket	Ck 67 Hardness 490±525 HV1 Phosphated white	Ck 67 Hardness 490±525 HV1 Phosphated white	Steel Ck 67 Hardness 490±525 HV1	Steel Ck 67 Hardness 490±525 HV1	Steel Ck 67 Hardness 490±525 HV1	Steel Ck 67 Hardness 490±525 HV1

Electronic Flashers for LED and BULBS

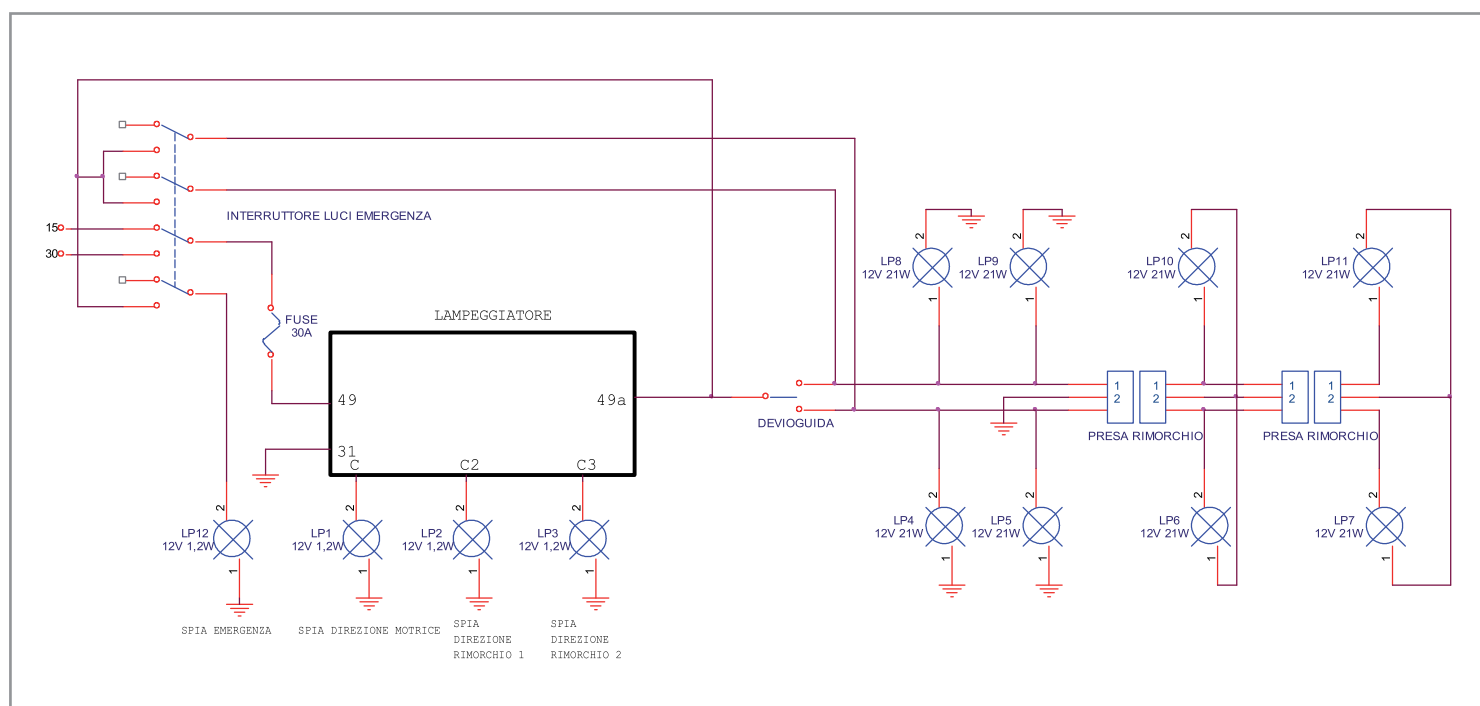
COMPLIANT TO: ISO 13207-1 ; ISO 4082



Schema Elettrico - Wiring diagram



Schema di Collegamento - Circuit diagram



Electronic Flashers for LED and BULBS

COMPLIANT TO: ISO 13207-1 ; ISO 4082

SPECIFICHE TECNICHE - Technical data		
TENSIONE NOMINALE Rated voltage	12V	24V
LIMITI DI FUNZIONAMENTO Operating voltage	10,5 ÷ 16V	18 ÷ 32V
INVERSIONE DI POLARITÀ Reverse polarity	protected	protected
CORRENTE ASSORBITA IN STAND-BY Stand-by power consumption	< 20mA	< 10mA
FREQUENZA LAMPEGGIO Flashing frequency	1,4 Hz / 2,5 Hz	1,4 Hz / 2,5 Hz
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-30°C ÷ 85°C	-30°C ÷ 85°C

P/N	Q.ta Q.ty	Staffa Bracket	Type	Alimentazione Power Supply	Grado di Protezione Sealing Degree	Carico Nominale Rated Load	Conformità Conformity
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OLD P/N

1086634
1086635
 19-0100-0000

1
 50

-

A

12V

IP66

(2 +1+1) x 21W
8 x 21W

ISO 13207-1
EMC: ECE R10 rev.5

1078478 1078479 19-0095-0000	1 50	-	A	12V	IP64 not potted	(2 +1+1) x 21W 8 x 21W	ISO 4082 EMC: ECE R10 rev.5
--	---------	---	---	-----	--------------------	---------------------------	--------------------------------

1027234
1027235
 19-0073-0000

1086632
1086633
 19-0098-0000

1
 50

X

B

12V

IP66

(2 +1+1) x 21W
8 x 21W

ISO 13207-1
EMC: ECE R10 rev.5

1078480 1078482 19-0096-0000	1 50	X	B	12V	IP64 not potted	(2 +1+1) x 21W 8 x 21W	ISO 4082 EMC: ECE R10 rev.5
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1027236
1027237
 19-0074-0000

1092576
1092577
 19-0107-0000

1
 50

-

A

24V

IP66

(2 +1+1) x 21W
8 x 21W

ISO 13207-1
EMC: ECE R10 rev.5

1092573 1092574 19-0106-0000	1 50	X	B	24V	IP66	(2 +1+1) x 21W 8 x 21W	ISO 13207-1 EMC: ECE R10 rev.5
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1078483
1078484
 19-0097-0000

1
 50

X

B

12V

IP66

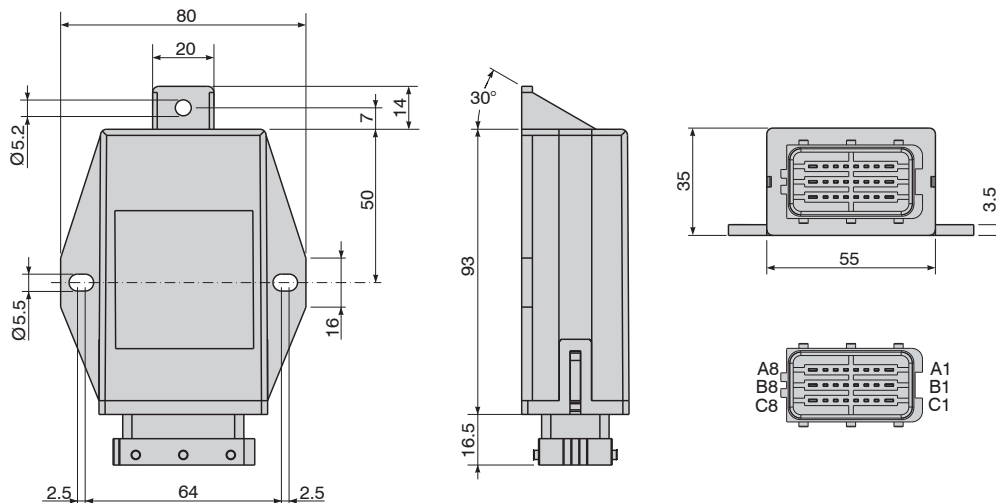
(2 +1+1) x 21W
8 x 21W

ISO 4082
EMC: ECE R10 rev.5

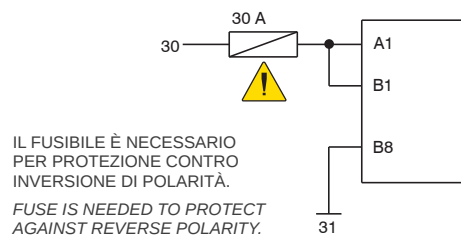
1027239
1027240
 19-0079-0000

1027241
1027242
 19-0080-0000

Electronic Flashers COMPLIANT TO: ISO 13207-1 ; NASO ASAE 279/18



SCHEMA DI COLLEGAMENTO A BATTERIA
POWER SUPPLY DIAGRAM



CAVO INTERFACCIA
INTERFACE CABLE

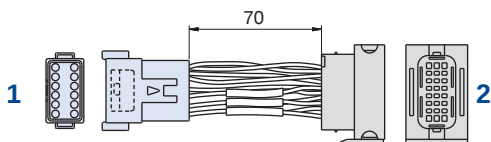
P/N
1027233
19-0072-0999

OLD FLASHER

19-053-000 24V
19-054-000 12V

NEW FLASHER + CABLE

1027221 + 1027233
1090351 + 1027233



1- CONNECTOR SERIES

DEUTSCH 12 pins

P/N COBO **3009636** (XE0802501)
P/N DEUTSCH DT04-12PA

2- CONNECTOR SERIES

FRAMATONE SICMA-2 24 pins

P/N COBO **3009479** (XE0801607)
P/N SICMA 211PC249S0033



P/N

Q.ta
Q.ty

1034736
46-12-010610

1

OPTIONAL KIT

Connettore controparte / Mating connector:
FRAMATONE SICMA-2 24 pins

(Includes: connector, rubber taps, slider, female terminals)

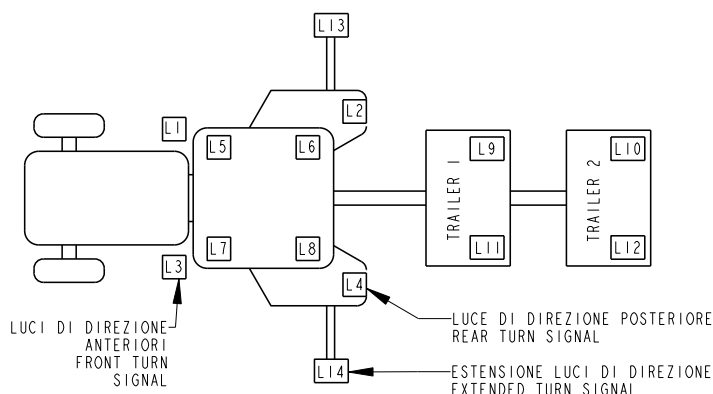
EUROPEAN (ISO)
MOTHER REGULATION No 167/2013

ISO 13207-1

USA (NASO)
ASAE 279/18

(AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS)
LIGHTING & MARKING AGRICULTURAL MACHINERY ON HIGHWAYS

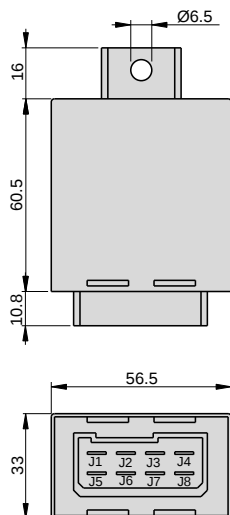
DISPOSIZIONE LUCI SUL VEICOLO
VEHICLE LIGHTING LAYOUT DIAGRAM



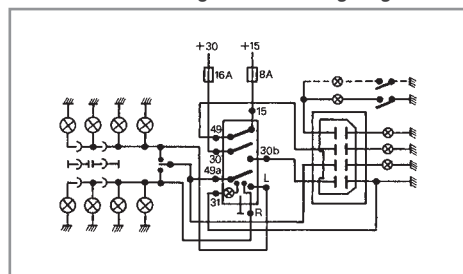


P/N	Q.ta Q.ty	Tensione Nominale Rated Voltage	Limiti di Funzionamento Operating Voltage	Corrente Assorbita in Stand-By Stand-By Power consumption	Corrente Assorbita in Stand-By KEY OFF Power consumption Stand-By KEY OFF	Corrente Assorbita in Stand-By KEY ON Power consumption Stand-By KEY ON	Grado di Protezione Sealing Degree	Carico Nominale Rated Load	Disposizione Luci Lighting Layout	Temperatura di Funzionamento Operating Temperature	Conformità Conformity	P/N OLD
1027218 1027219 19-0064-0000	1 50	12V	9 ÷ 16V	-	< 1mA	< 20mA	IP66	8 x 21W 4 x 26W 2 x 21W 3 x 1,2W	NASO L1 - L2 - L3 L4 - L5 - L6 L7 - L8 - L9 L10 - L11 - L12 L13 - L14	-40°C ÷ +85°C	NASO	1027280 1027281 19-062-000
1058154 19-0066-0000	1	12V	9 ÷ 16V	-	< 1mA	< 20mA	IP66	8 x 21W 5 x 1,2W	ISO L1 - L2 - L3 L4 - L9 - L10 L11 - L12	-40°C ÷ +85°C	ISO	1027271 1027272 19-058-000
1027221 1027222 19-0067-0000	1 50	24V	18 ÷ 32V	< 2mA	-	-	IP66	8 x 21W 3 x 1,2W 2 x 21W	ISO L1 - L2 - L3 L4 - L9 - L11	-30°C ÷ +85°C	ISO	
1027223 1027224 19-0068-0000	1 50	24V	18 ÷ 32V	< 2mA	-	-	IP66	6 x 21W 3 x 1,2W 2 x 21W	ISO L1 - L2 - L3 L4 - L9 - L11	-30°C ÷ +85°C	ISO	
1027226 1027227 19-0070-0000	1 50	12V	9 ÷ 16V	< 10mA	-	-	IP66	4 x 21W 2 x 21W 1 x 1,2W	ISO L1 - L2 - L3 L4 - L9 - L10 L11 - L12 NASO L1 - L2 - L3 L4 - L9 - L10 L11 - L12 L13 - L14	-40°C ÷ +85°C	ISO/NASO	
1027231 1027232 19-0072-0000	1 50	12V	9 ÷ 16V	< 10mA	-	-	IP66	4 x 21W + 1,2W 1 x 21W 1 x 1,2W	ISO L1 - L2 - L3 L4 - L9 - L10 L11 - L12 NASO L1 - L2 - L3 L4 - L9 - L10 L11 - L12 L13 - L14	-40°C ÷ +85°C	ISO/NASO	
1090351 1090352 19-0103-0000	1 50	12V	9 ÷ 16V	< 100uA	-	-	IP66	8 x 21W 4 x 21W 2 x 21W 3 x 1,2W	ISO L1 - L2 - L3 L4 - L9 - L10 L11 - L12 L13 - L14 NASO L1 - L2 - L3 L4 - L5 - L6 L7 - L8 - L9 L10 - L11 - L12 L13 - L14	-40°C ÷ +70°C	ISO/NASO ISO 13207-1 MOTHER REGULATION	
CAN BUS 1092353 1092354 19-0105-0000	1 50	12V	9 ÷ 16V	< 2mA	-	-	IP66	8 x 21W 3 x 1,2W	ISO L1 - L2 - L3 L4 - L9 - L10 L11 - L12	-40°C ÷ +70°C	ISO 13207-1 MOTHER REGULATION	

Electronic Flasher



Schema di Collegamento - Wiring diagram

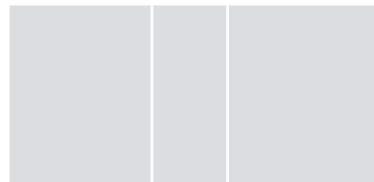


P/N	Q.ta Q.ty	Alimentazione Power Supply
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1058295
19-0094-0000

1

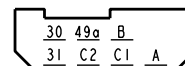
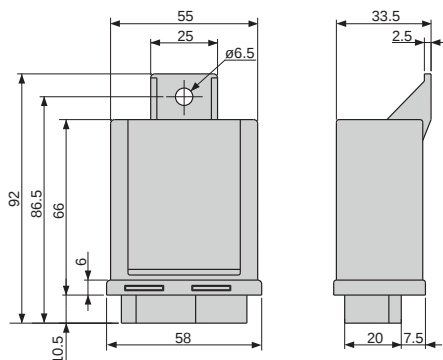
12V



SPECIFICHE TECNICHE - Technical data

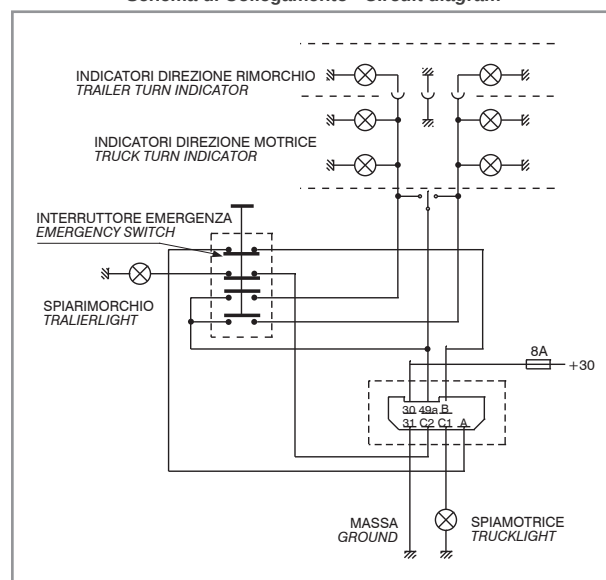
TENSIONE NOMINALE Rated voltage	12V
LIMITI DI FUNZIONAMENTO Operating voltage	9 ÷ 18V
CARICO NOMINALE Rated load	8 x 21W
FREQUENZA LAMPEGGIO Flashing frequency	85 - 150 flash/min
TEMPO DI ACCENSIONE Ignition time	-
RESISTENZA AL CORTOCIRCUITO Short circuit resistance	-
ASSORBIMENTO DI CORRENTE IN STAND-BY Stand-by power consumption	< 20mA
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-30°C ÷ 85°C
GRADO DI PROTEZIONE Sealing degree	IP64
INVERSIONE DI POLARITA' Reverse polarity	Protected
CONFORMITÀ Conformity	ISO/NASO ISO 4082 ISO 7637 EMC 2004/104/CE

Electronic Flashers

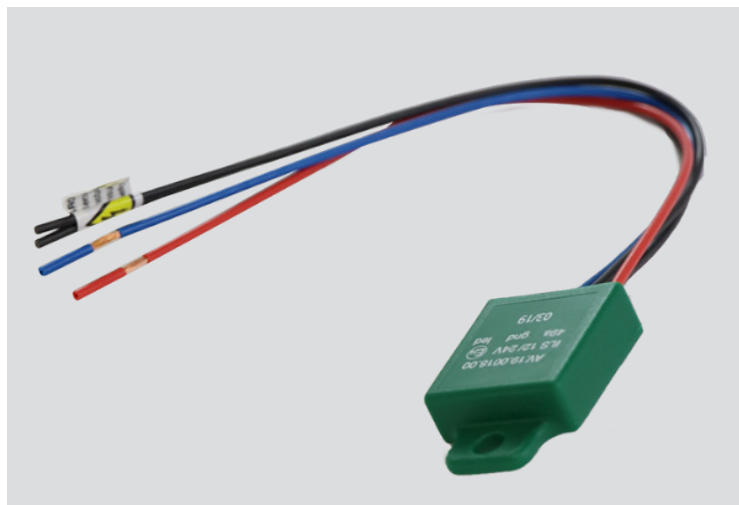


P/N	Q.ta Q.ty	Alimentazione Power Supply	Carico Nominale Rated Load	Conformità Conformity
1000071 0C04927000	1	24V	2 x 21W 4 x 21W C1÷C2 x 4W	ISO 2768 UNI EN 22768

Schema di Collegamento - Circuit diagram

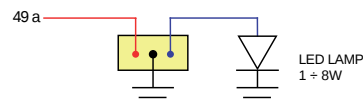
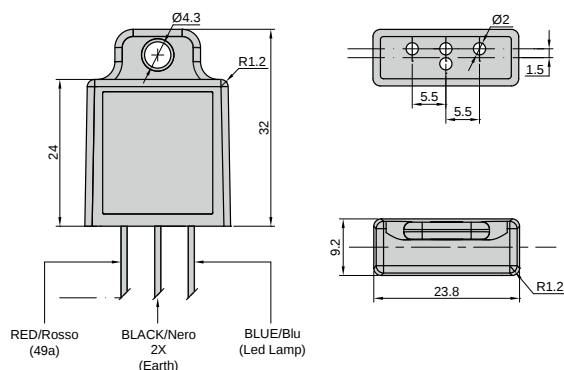


Intelligent Failure Detector for LED



La soluzione intelligente e universale al problema del rilevamento guasti di un indicatore di direzione a LED.

The intelligent and universal solution to the problem of the failure detection of a LED direction indicator lamp.



P/N	Q.ta Q.ty	Alimentazione Power Supply	Per Intermittenze For Electronic Flashers
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1003736
AV-19-0018

4

12 - 24V

P/N:
1003738 ; 1003740
1003742 ; 1003744

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SPECIFICHE TECNICHE - Technical data	
TENSIONE NOMINALE Rated voltage	12 - 24V
LIMITI DI FUNZIONAMENTO Operating voltage	9 ÷ 32V
TENSIONE DI PROVA Test voltage	13V ± 0,2V / 26V ± 0,2V
TEMPERATURA DI COLLAUDO Test temperature	+20°C ± 2°C
TEMPERATURA DI FUNZIONAMENTO Operating temperature	-40°C ÷ 80°C
SPECIFICHE CONTATTI - Contact data	
CARICO NOMINALE Switch power	1W - 8W
ALTRE SPECIFICHE - Other data	
CARATTERISTICHE DELLA LAMPADA A LED PER IL RILEVAMENTO DI GUASTI COMPATIBILI CON LA LAMPADINA Led lamp characteristic for bulb compatible failure detection	ISO 13207-1 2012
GRADO DI PROTEZIONE Sealing degree	IP65
Use in combination whth 1003738 (AV-19-0019) 1003740 (AV-19-0020) 1003742 (AV-19-0021) 1003744 (AV-19-0022)	EMC ECE R10 e24 compliance EU DIR 2002/95/EC RoHS
MATERIALI - Material	
COPERCHIO Housing	Nylon Pa 6.6 +15% Gf Green