

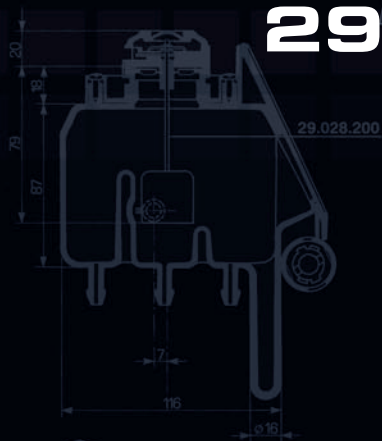


2M

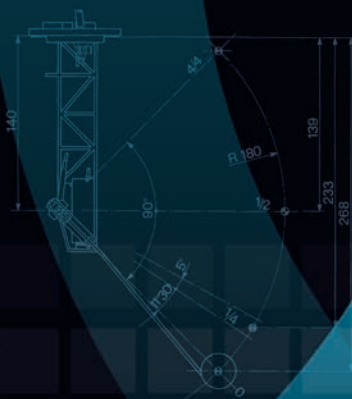
**21 22
29**

COMANDI INDICATORE

SENDERS



29.028.200







2M
21 22

**COMANDI
INDICATORE
TEMPERATURA E
PRESSIONE**

*TEMPERATURE AND
PRESSURE SENDERS*

- **Sensori di pressione**
- **Pressure sensors**

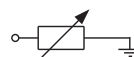
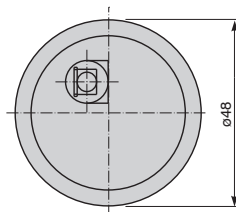
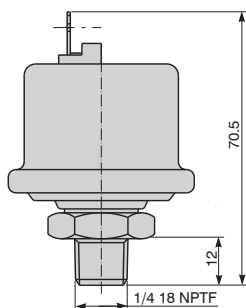


2M02E002

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: 1/4 18 NPTF
Chiave: esagono 22 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: 1/4 18 NPTF
Key: hexagon 22 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V



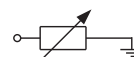
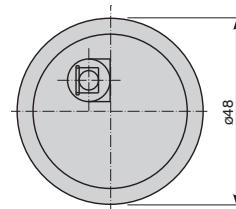
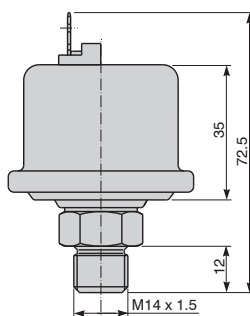
Pressione (bar) Pressure (bar)	Resistenza (ohm) Resistance (ohm)
0	260 ÷ 300
4	105 ÷ 125
8	0 ÷ 20

2M02E003

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: M14 x 1.5
Chiave: esagono 19 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M14 x 1.5
Key: hexagon 19 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V



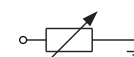
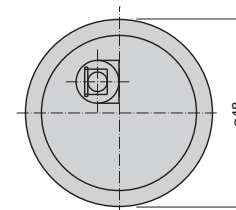
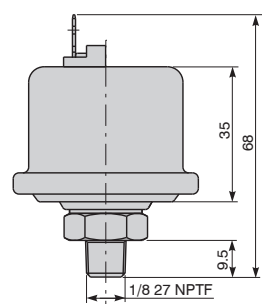
Pressione (bar) Pressure (bar)	Resistenza (ohm) Resistance (ohm)
0	260 ÷ 300
4	105 ÷ 125
8	0 ÷ 20

2M02E004

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: 1/8 27 NPTF
Chiave: esagono 17 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: 1/8 27 NPTF
Key: hexagon 17 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V



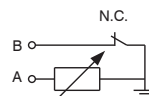
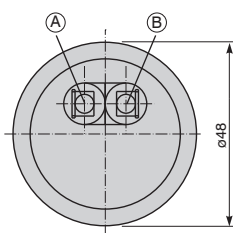
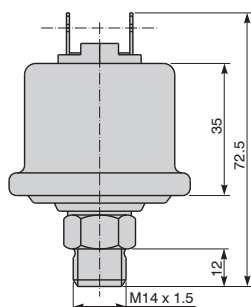
Pressione (bar) Pressure (bar)	Resistenza (ohm) Resistance (ohm)
0	260 ÷ 300
4	105 ÷ 125
8	0 ÷ 20

2M02F002

Sensore di pressione
con interruttore
*Pressure sensor
with switch*

Materiale corpo: Zn-Cr placcato
Filettatura: M14 x 1.5
Chiave: esagono 19 mm
Connessione: 2 terminali faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M14 x 1.5
Key: hexagon 19 mm
Connection: 2 blade terminals 6.35 x 0.8 mm
Power supply voltage: 12 - 24V



Pressione (bar) <i>Pressure (bar)</i>	Resistenza (ohm) <i>Resistance (ohm)</i>
0	260 ÷ 300
4	105 ÷ 125
8	0 ÷ 20

SWITCH

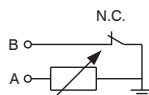
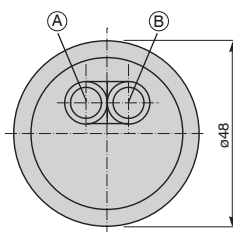
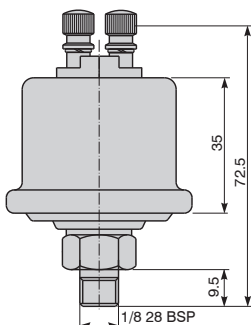
Type	Pressione di apertura (bar) <i>Opening pressure (bar)</i>
Normalmente chiuso <i>Normally closed</i>	0.6 - 1.2

2M02F003

Sensore di pressione
con interruttore
*Pressure sensor
with switch*

Materiale corpo: Zn-Cr placcato
Filettatura: 1/8 28 BSP
Chiave: esagono 17 mm
Connessione: 2 bottoni dado godronati
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: 1/8 28 BSP
Key: hexagon 17 mm
Connection: 2 knurled nut buttons
Power supply voltage: 12 - 24V



Pressione (bar) <i>Pressure (bar)</i>	Resistenza (ohm) <i>Resistance (ohm)</i>
0	0 ÷ 20
6	126 ÷ 144
10	170 ÷ 190

SWITCH

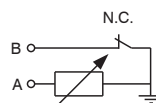
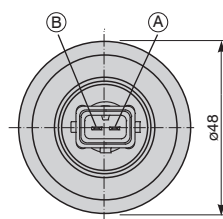
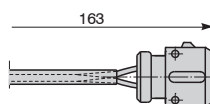
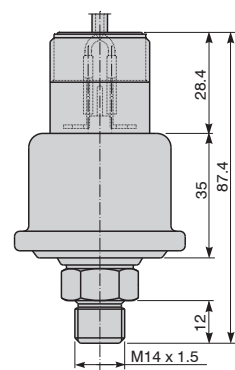
Type	Pressione di apertura (bar) <i>Opening pressure (bar)</i>
Normalmente chiuso <i>Normally closed</i>	0.9 ÷ 1.2

2M02F004

Sensore di pressione
con interruttore
*Pressure sensor
with switch*

Materiale corpo: Zn-Cr placcato
Filettatura: M14 x 1.5
Chiave: esagono 19 mm
Connessione: YCO JPG
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M14 x 1.5
Key: hexagon 19 mm
Connection: YCO JPG
Power supply voltage: 12 - 24V



Pressione (bar) <i>Pressure (bar)</i>	Resistenza (ohm) <i>Resistance (ohm)</i>
0	0 ÷ 20
6	126 ÷ 144
10	170 ÷ 190

SWITCH

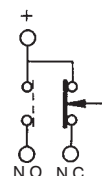
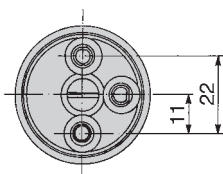
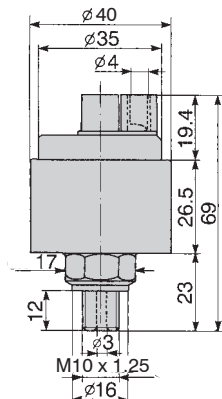
Type	Pressione di apertura (bar) <i>Opening pressure (bar)</i>
Normalmente chiuso <i>Normally closed</i>	1

22.021.000

Sensore di pressione
con commutatore
*Pressure sensor -
change over*

Materiale corpo: ottone
Filettatura: M10 x 1.5
Chiave: esagono 17 mm
Connessione: spina Ø 4 mm
Tensione di alimentazione: 12 - 24V

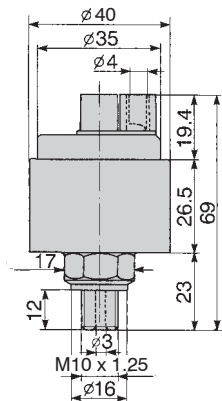
Housing material: brass
Thread: M10 x 1.5
Key: hexagon 17 mm
Connection: pin Ø 4 mm
Power supply voltage: 12 - 24V



Pressione di commutazione (bar) <i>Change over pressure (bar)</i>	4.5 ± 0.2
--	-----------

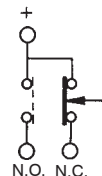
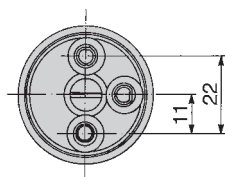
22.022.000

Sensore di pressione
con commutatore
Pressure sensor -
change over



Materiale corpo: ottone
Filettatura: M10 x 1.5
Chiave: esagono 17 mm
Connessione: spina Ø 4 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: M10 x 1.5
Key: hexagon 17 mm
Connection: pin Ø 4 mm
Power supply voltage: 12 - 24V

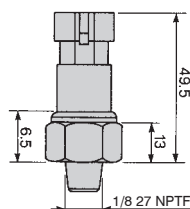


Pressione di commutazione (bar)
Change over pressure (bar)

3.3 ± 0.1

22.026.000

Sensore di pressione
Pressure sensor



27.0958.0000
Kit di connessione controparte
Counterpart connection kit

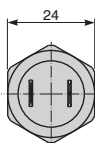
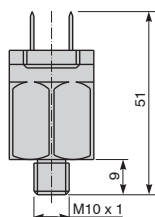


Pressione di apertura (bar)
Opening pressure (bar)

2 ± 4

AV.22.0001

Sensore di pressione
Pressure sensor

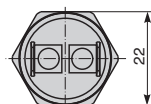
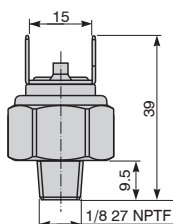


Pressione di chiusura (bar)
Closing pressure (bar)

0.6

AV.22.0002

Sensore di pressione solo
per impianto freni
Brake systems only

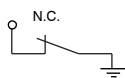
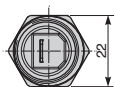
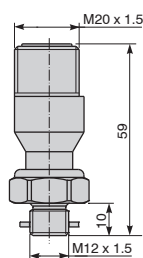


Pressione di chiusura (bar)
Closing pressure (bar)

3 ÷ 8

AV.21.0002

Sensore di pressione
Pressure sensor



Materiale corpo: Zn-Cr placcato
Filettatura: M12 x 1.5
Chiave: esagono 22 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

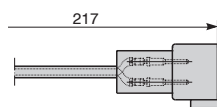
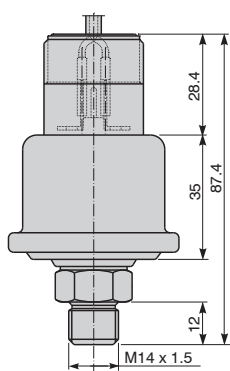
Housing material: Zn-Cr plated
Thread: M12 x 1.5
Key: hexagon 22 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

Pressione di apertura (bar)
Opening pressure (bar)

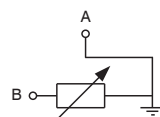
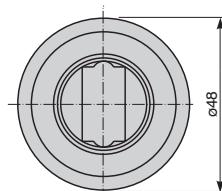
1.0 + 0.10 / - 0.15

AV.22.0003

Sensore di pressione
Pressure sensor



27.0908.0000
Kit di connessione controparte
Counterpart connection kit



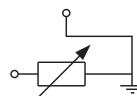
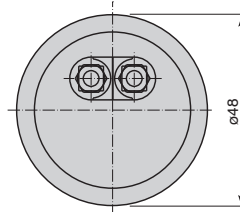
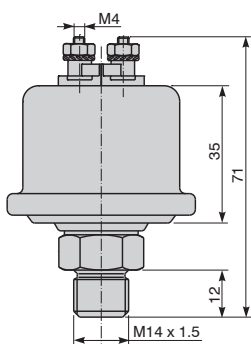
Pressione (bar)
Pressure (bar)

Resistenza (ohm)
Resistance (ohm)

0	0 ÷ 20
6	126 ÷ 144
10	170 ÷ 190

AV.22.0004

Sensore di pressione
Pressure sensor



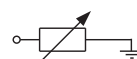
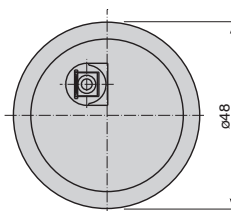
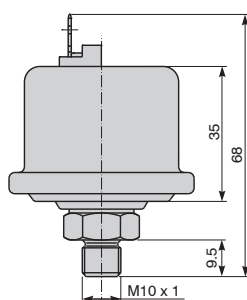
Pressione (bar)
Pressure (bar)

Resistenza (ohm)
Resistance (ohm)

0	0 ÷ 20
6	126 ÷ 144
10	170 ÷ 190

AV.22.0005

Sensore di pressione
Pressure sensor



Pressione (bar)
Pressure (bar)

Resistenza (ohm)
Resistance (ohm)

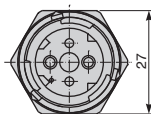
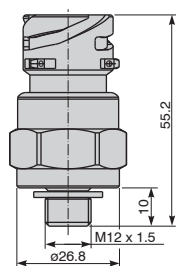
0	260 ÷ 300
4	105 ÷ 125
8	0 ÷ 20

AV.22.0006

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: M12 x 1.5
Chiave: esagono 27 mm
Connessione: tipo DIN
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M12 x 1.5
Key: hexagon 27 mm
Connection: DIN type
Power supply voltage: 12 - 24V



Pressione di chiusura (bar)
Closing pressure (bar)

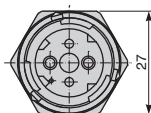
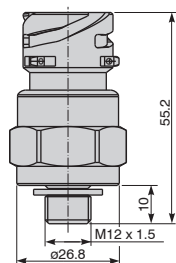
0.3 ± 0.20

AV.22.0007

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: M12 x 1.5
Chiave: esagono 27 mm
Connessione: tipo DIN
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M12 x 1.5
Key: hexagon 27 mm
Connection: DIN type
Power supply voltage: 12 - 24V



Pressione di chiusura (bar)
Closing pressure (bar)

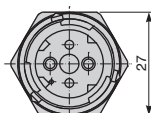
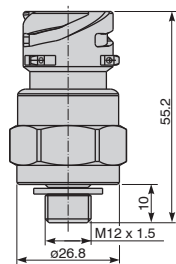
5.4 ± 0.30

AV.22.0008

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: M12 x 1.5
Chiave: esagono 27 mm
Connessione: tipo DIN
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M12 x 1.5
Key: hexagon 27 mm
Connection: DIN type
Power supply voltage: 12 - 24V



Pressione di chiusura (bar)
Closing pressure (bar)

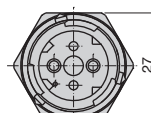
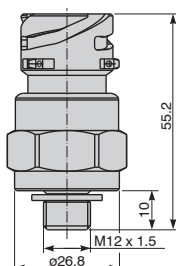
0.7 ± 0.20

AV.22.0009

Sensore di pressione
Pressure sensor

Materiale corpo: Zn-Cr placcato
Filettatura: M12 x 1.5
Chiave: esagono 27 mm
Connessione: tipo DIN
Tensione di alimentazione: 12 - 24V

Housing material: Zn-Cr plated
Thread: M12 x 1.5
Key: hexagon 27 mm
Connection: DIN type
Power supply voltage: 12 - 24V



Pressione di chiusura (bar)
Closing pressure (bar)

5.8 ± 0.30

Tabella riassuntiva / Summary chart

P/N	Filetto Thread	Connessione Connection	Contatto Switch	Pressione contatto Switch pressure	Resistenza [ohm] Resistance [ohm]										
					0 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
2M02E002	1/4 - 18 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	280	-	-	-	115	-	-	-	10	-	-
2M02E003	M 14 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	281	-	-	-	116	-	-	-	11	-	-
2M02E004	1/8 - 27 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	282	-	-	-	117	-	-	-	12	-	-
2M02F002	M14 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente chiuso Normally closed	0.6 - 1.2 bar	283	-	-	-	118	-	-	-	13	-	-
2M02F003	1/8 - 28 BSP	2 bottoni dado godronati 2 knurled nut buttons	Normalmente chiuso Normally closed	0.9 - 1.2 bar	10	-	-	-	-	-	135	-	-	-	180
2M02F004	M14 x 1.5	Connettore YCO JPG Connector YCO JPG	Normalmente chiuso Normally closed	1 bar	10	-	-	-	-	-	135	-	-	-	180
22.021.000	M10 x 1.5	Spina diametro 4mm Connection pin 4mm diameter	Doppio contatto normalmente chiuso e aperto Double contact Normally closed and open	4.5 bar	-	-	-	-	-	-	-	-	-	-	-
22.022.000	M10 x 1.5	Spina diametro 4mm Connection pin 4mm diameter	Doppio contatto normalmente chiuso e aperto Double contact Normally closed and open	3.3 bar	-	-	-	-	-	-	-	-	-	-	-
22.026.000	1/8 - 27 NPTF	S/seal 2 vie 2 pins s/seal	Normalmente chiuso Normally closed	2 bar	-	-	-	-	-	-	-	-	-	-	-
AV.22.0001	M10 x 1	2 Terminali faston 6.5 x 0.8mm 2 Blade terminals 6.5 x 0.8mm	Normalmente aperto Normally open	0.6 bar	-	-	-	-	-	-	-	-	-	-	-
AV.22.0002	1/8 - 27 NPTF	2 Terminali faston 8 x 0.8mm 2 Blade terminals 8 x 0.8mm	Normalmente aperto Normally open	3 bar	-	-	-	-	-	-	-	-	-	-	-
AV.21.0002	M12 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente chiuso Normally closed	1 bar	-	-	-	-	-	-	-	-	-	-	-
AV.22.0003	M14 x 1.5	Deutsch 3 vie 3 pins deutsch	-	-	10	-	-	-	-	-	135	-	-	-	180
AV.22.0004	M14 x 1.5	2 terminali a vite 2 screw terminals	-	-	10	-	-	-	-	-	135	-	-	-	180
AV.22.0005	M10 x 1	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	280	-	-	-	115	-	-	-	10	-	-
AV.22.0006	M12 x 1.5	Tipo DIN DIN type	Normalmente aperto Normally open	0.3 bar	-	-	-	-	-	-	-	-	-	-	-
AV.22.0007	M12 x 1.5	Tipo DIN DIN type	Normalmente aperto Normally open	5.4 bar	-	-	-	-	-	-	-	-	-	-	-
AV.22.0008	M12 x 1.5	Tipo DIN DIN type	Normalmente aperto Normally open	0.7 bar	-	-	-	-	-	-	-	-	-	-	-
AV.22.0009	M12 x 1.5	Tipo DIN DIN type	Normalmente chiuso Normally closed	5.8 bar	-	-	-	-	-	-	-	-	-	-	-

- Sensori di temperatura
- Temperature sensors

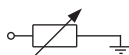
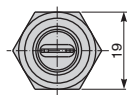
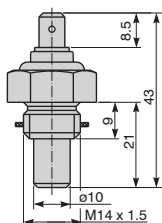


2M020043

Sensore di temperatura
Temperature sensor

Materiale corpo: ottone
Filettatura: M14 x 1.5
Chiave: esagono 19 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: M14 x 1.5
Key: hexagon 19 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm



CARATTERISTICHE NTC / NTC FEATURES

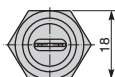
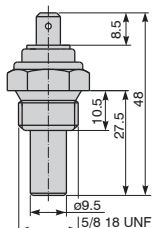
Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M020044

Sensore di temperatura
Temperature sensor

Materiale corpo: ottone
Filettatura: 5/8 18 UNF
Chiave: esagono 18 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: 5/8 18 UNF
Key: hexagon 18 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm



CARATTERISTICHE NTC / NTC FEATURES

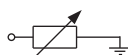
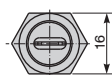
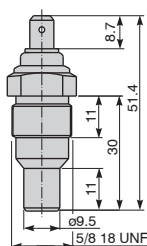
Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2018 ± 10%
40°	1050 ± 10%
50°	702 ± 10%
60°	481 ± 10%
70°	337 ± 10%
80°	241 ± 10%
90°	176 ± 10%
100°	130 ± 10%
110°	98 ± 10%
120°	75 ± 10%

2M020045

Sensore di temperatura
Temperature sensor

Materiale corpo: ottone
Filettatura: 5/8 18 UNF
Chiave: esagono 16 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: 5/8 18 UNF
Key: hexagon 16 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

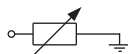
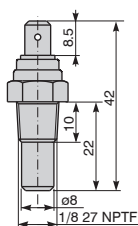


CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M02A004

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: 1/8 27 NPTF
Chiave: esagono 13 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

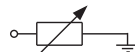
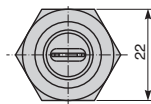
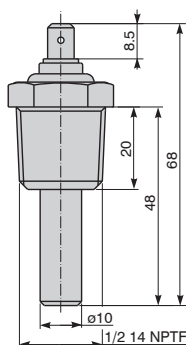
Housing material: brass
Thread: 1/8 27 NPTF
Key: hexagon 13 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M02A005

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: 1/2 14 NPTF
Chiave: esagono 22 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12V
Coppia di serraggio: ≤ 2.5 kgm

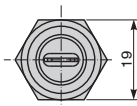
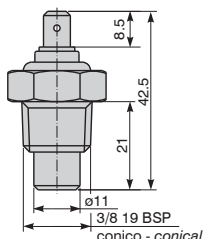
Housing material: brass
Thread: 1/2 14 NPTF
Key: hexagon 22 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M02A006

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: 3/8 19 BSP conico
Chiave: esagono 19 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

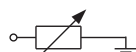
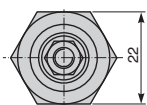
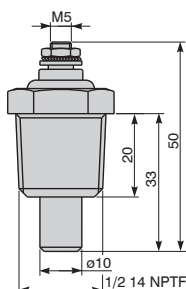
Housing material: brass
Thread: 3/8 19 BSP conical
Key: hexagon 19 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2018 ± 10%
40°	1050 ± 10%
50°	702 ± 10%
60°	481 ± 10%
70°	337 ± 10%
80°	241 ± 10%
90°	176 ± 10%
100°	130 ± 10%
110°	98 ± 10%
120°	75 ± 10%

2M02A007

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: 1/2 14 NPTF
Chiave: esagono 22 mm
Connessione: mediante dado M5 x 0.8
Tensione di alimentazione: 12V
Coppia di serraggio: Sensore ≤ 2.5 kgm
Dado ≤ 1.5 Nm

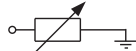
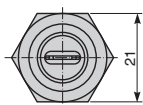
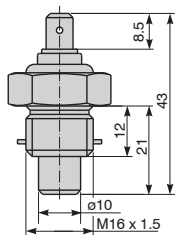
Housing material: brass
Thread: 1/2 14 NPTF
Key: hexagon 22 mm
Connection: M5 x 0.8 nut
Power supply voltage: 12V
Tighten torque: Sensor ≤ 2.5 kgm
Nut ≤ 1.5 Nm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M02A008

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: M16 x 1.5
Chiave: esagono 21 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

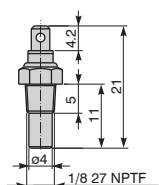
Housing material: brass
Thread: M16 x 1.5
Key: hexagon 21 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2018 ± 10%
40°	1050 ± 10%
50°	702 ± 10%
60°	481 ± 10%
70°	337 ± 10%
80°	241 ± 10%
90°	176 ± 10%
100°	130 ± 10%
110°	98 ± 10%
120°	75 ± 10%

2M02A009

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: 1/8 27 NPTF
Chiave: esagono 6.5 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

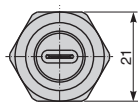
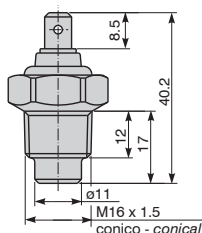
Housing material: brass
Thread: 1/8 27 NPTF
Key: hexagon 6.5 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2806 ± 10%
40°	1129 ± 10%
50°	645 ± 10%
60°	381 ± 10%
70°	232 ± 10%
80°	146 ± 10%
90°	94 ± 10%
100°	62 ± 10%
110°	41 ± 10%
120°	28 ± 10%

2M02A011

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: M16 x 1.5 conico
Chiave: esagono 21 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

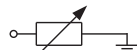
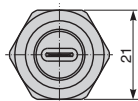
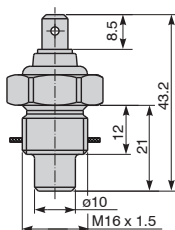
Housing material: brass
Thread: M16 x 1.5 conical
Key: hexagon 21 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2806 ± 10%
40°	1129 ± 10%
50°	645 ± 10%
60°	381 ± 10%
70°	232 ± 10%
80°	146 ± 10%
90°	94 ± 10%
100°	62 ± 10%
110°	41 ± 10%
120°	28 ± 10%

2M02A012

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: M16 x 1.5
Chiave: esagono 21 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

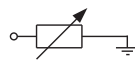
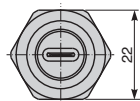
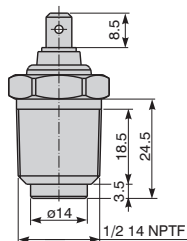
Housing material: brass
Thread: M16 x 1.5
Key: hexagon 21 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M02A013

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone
Filettatura: 1/2 14 NPTF
Chiave: esagono 22 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

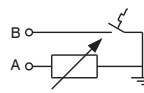
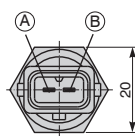
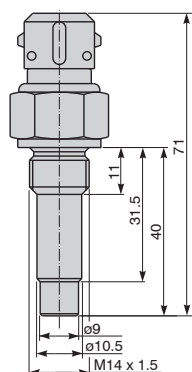
Housing material: brass
Thread: 1/2 14 NPTF
Key: hexagon 22 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2M02B002

Sensore di temperatura
con termointeruttore
Temperature sensor
with thermal switch



Materiale corpo: ottone
Filettatura: M14 x 1.5
Chiave: esagono 20 mm
Connessione: 2 terminali faston 2.7 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: M14 x 1.5
Key: hexagon 20 mm
Connection: 2 blade terminals 2.7 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

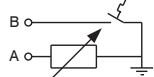
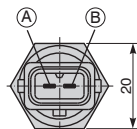
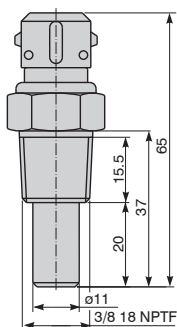
Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
107° ± 3°	8° ± 5°

2M02B003

Sensore di temperatura
con termointeruttore
Temperature sensor
with thermal switch



Materiale corpo: ottone
Filettatura: 3/8 18 NPTF
Chiave: esagono 20 mm
Connessione: 2 terminali faston 2.7 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: 3/8 18 NPTF
Key: hexagon 20 mm
Connection: 2 blade terminals 2.7 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

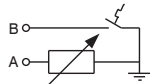
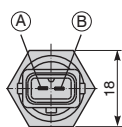
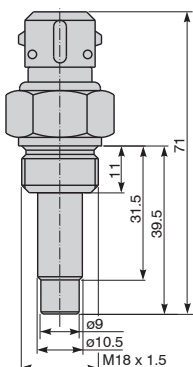
Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
107° ± 3°	8° ± 5°

2M02B004

Sensore di temperatura
con termointeruttore
Temperature sensor
with thermal switch



Materiale corpo: ottone
Filettatura: M18 x 1.5
Chiave: esagono 18 mm
Connessione: 2 terminali faston 2.7 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: M18 x 1.5
Key: hexagon 18 mm
Connection: 2 blade terminals 2.7 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

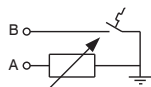
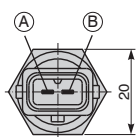
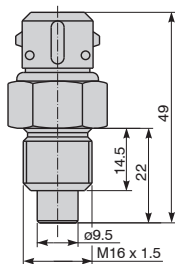
Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
107° ± 3°	8° ± 5°

2MO2B005

Sensore di temperatura
con termocontatto
*Temperature sensor
with thermal switch*



TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
110° ± 3°	5° + 5/- 0°

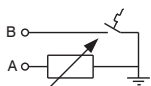
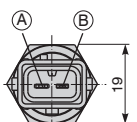
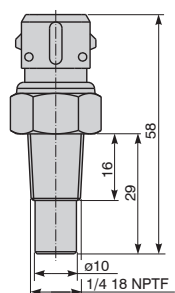
Housing material: brass
Thread: M16 x 1.5
Key: hexagon 20 mm
Connection: 2 blade terminals 2.7 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	865 ± 10%
40°	468 ± 10%
50°	321 ± 10%
60°	225 ± 10%
70°	161 ± 10%
80°	118 ± 10%
90°	87 ± 10%
100°	66 ± 10%
110°	50 ± 10%
120°	39 ± 10%

2MO2B006

Sensore di temperatura
con termocontatto
*Temperature sensor
with thermal switch*



TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
120° ± 3°	8° + 5/- 0°

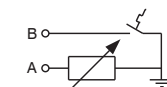
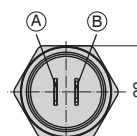
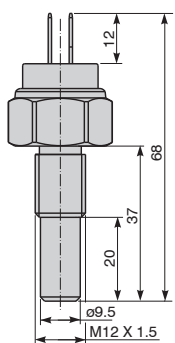
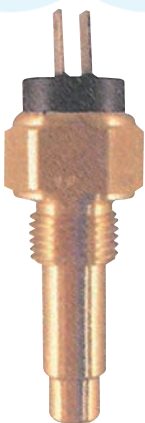
Housing material: brass
Thread: 1/4 18 NPTF
Key: hexagon 19 mm.
Connection: 2 blade terminals 2.8 x 0.8 mm
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2397 ± 10%
40°	1504 ± 10%
50°	997 ± 10%
60°	677 ± 10%
70°	470 ± 10%
80°	334 ± 10%
90°	241 ± 10%
100°	177 ± 10%
110°	133 ± 10%
120°	101 ± 10%

2MO2B007

Sensore di temperatura
con termocontatto
*Temperature sensor
with thermal switch*



TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
107° ± 3°	8° ± 5°

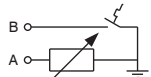
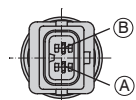
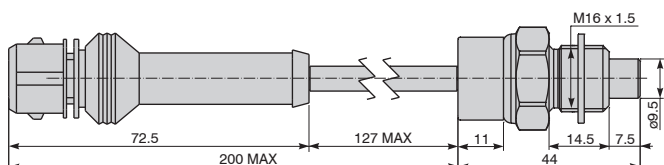
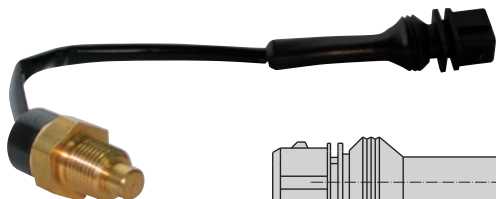
Housing material: brass
Thread: M12 x 1.5
Key: hexagon 22 mm
Connection: 2 blade terminals 6.5 x 0.8 mm and 5 x 0.8 mm
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
40°	1170 ± 10%
50°	782 ± 10%
60°	536 ± 10%
70°	375 ± 10%
80°	268 ± 10%
90°	195 ± 10%
100°	144 ± 10%
110°	109 ± 10%
120°	83 ± 10%

2MO2B010

Sensore di temperatura
con termocontatto
*Temperature sensor
with thermal switch*



TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
110° ± 3°	5° + 5/- 0°

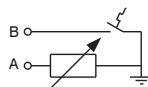
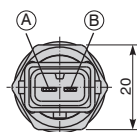
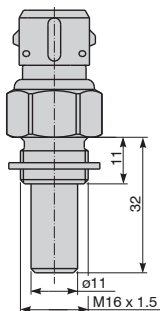
Housing material: brass
Thread: M16 x 1.5
Key: hexagon 22 mm
Connection: 2 blade terminals 2.8 x 0.8 mm
Connector material: black plastics
Protector material: silicone black color
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	865 ± 10%
40°	468 ± 10%
50°	321 ± 10%
60°	225 ± 10%
70°	161 ± 10%
80°	118 ± 10%
90°	87 ± 10%
100°	66 ± 10%
110°	50 ± 10%
120°	39 ± 10%

2M02D001

Sensore di temperatura
con termocontatto
*Temperature sensor
with thermal switch*

**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
100° ± 3°	8° + 5/- 0°

Housing material: brass

Thread: M16 x 1.5

Key: hexagon 20 mm

Connection: 2 blade terminals 6.5 x 0.8 mm

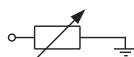
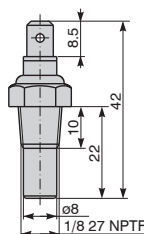
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	458 ± 10%
40°	249 ± 10%
50°	171 ± 10%
60°	120 ± 10%
70°	86 ± 10%
80°	63 ± 10%
90°	47 ± 10%
100°	36 ± 10%
110°	27 ± 10%
120°	21 ± 10%

21.017.000

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone

Filettatura: 1/8 27 NPTF

Chiave: esagono 13 mm

Connessione: terminale faston 6.35 x 0.8 mm

Tensione di alimentazione: 12 - 24V

Housing material: brass

Thread: 1/8 27 NPTF

Key: hexagon 13 mm

Connection: blade terminal 6.35 x 0.8 mm

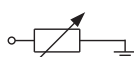
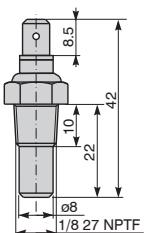
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2806 ± 10%
60°	381 ± 10%
90°	94 ± 10%

21.0020.0000

Sensore di temperatura
Temperature sensor



Materiale corpo: ottone

Filettatura: 1/8 27 NPTF

Chiave: esagono 13 mm

Connessione: terminale faston 6.35 x 0.8 mm

Tensione di alimentazione: 12 - 24V

Housing material: brass

Thread: 1/8 27 NPTF

Key: hexagon 13 mm

Connection: blade terminal 6.35 x 0.8 mm

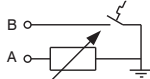
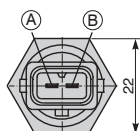
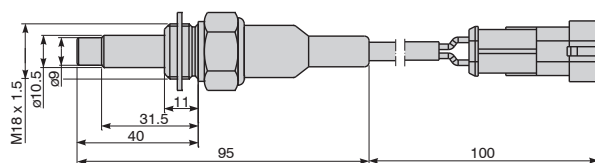
Power supply voltage: 12 - 24V

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
25°	2252 ± 10%
60°	536 ± 10%
90°	195 ± 10%

21.0021.0000

Sensore di temperatura
con termocontatto
*Temperature sensor
with thermal switch*



Materiale corpo: ottone

Filettatura: M18 x 1.5

Chiave: esagono 22 mm

Connessione: s/seal 2 vie

Tensione di alimentazione: 12 - 24V

Housing material: brass

Thread: M18 x 1.5

Key: hexagon 22 mm

Connection: 2 pins s/seal

Power supply voltage: 12 - 24V

27.0958.0000
Kit di connessione
controparte
Counterpart
connection kit

CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
20°	2843 ± 10%
40°	1170 ± 10%
60°	536 ± 10%
80°	268 ± 10%
100°	144 ± 10%
107°	120 ± 10%
120°	83 ± 10%

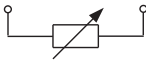
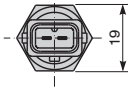
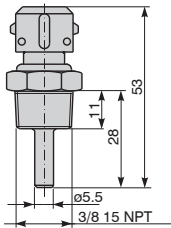
TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
107° ± 3°	8° ÷ 5°

Sensore di temperatura
Temperature sensor

Materiale corpo: ottone
Filettatura: 3/8 18 NPT
Chiave: esagono 19 mm
Connessione: 2 terminali faston 2.8 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: 3/8 18 NPT
Key: hexagon 19 mm
Connection: 2 blade terminals 2.8 x 0.8 mm
Power supply voltage: 12 - 24V



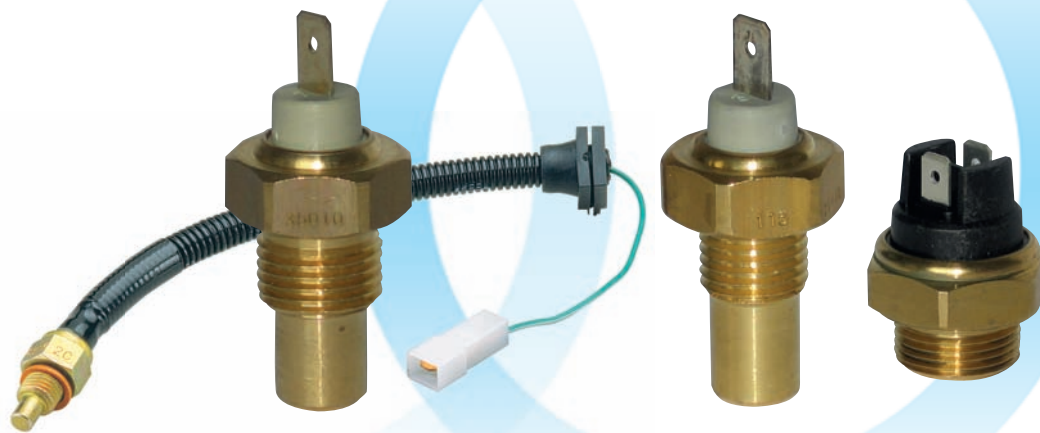
CARATTERISTICHE NTC / NTC FEATURES

Temp. C° Temp. C°	Resistenza (ohm) Resistance (ohm)
10°	3818 ± 10%
20°	2499 ± 10%
35°	1393 ± 10%
50°	820 ± 10%
65°	506 ± 10%
80°	325 ± 10%
95°	217 ± 10%
110°	149 ± 10%
120°	118 ± 10%

Tabella riassuntiva / Summary chart

P/N	Filetto Thread	Connessione Connection	Contatto Switch	Temp. contatto Switch temp.	Resistenza [ohm] Resistance [ohm]									
					25°C	40°C	50°C	60°C	70°C	80°C	90°C	100°C	110°C	120°C
2M020043	M14 X 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	1170	782	536	375	268	195	144	109	83
2M020044	5/8 - 18 UNF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2018	1050	702	481	337	241	176	130	98	75
2M020045	5/8 - 18 UNF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	1170	782	536	375	268	195	144	109	83
2M02A004	1/8 - 27 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	1170	782	536	375	268	195	144	109	83
2M02A005	1/2 - 14 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	1170	782	536	375	268	195	144	109	83
2M02A006	3/8 - 19 BSP	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2018	1050	702	481	337	241	176	130	98	75
2M02A007	1/2 - 14 NPTF	Dado M5 x 0.8mm M5 x 0.8mm nut	-	-	2252	1170	782	536	375	268	195	144	109	83
2M02A008	M16 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2018	1050	702	481	337	241	176	130	98	75
2M02A009	1/8 - 27 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2806	1129	645	381	232	146	94	62	41	28
2M02A011	M16 X 1.5 conica - conical	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2806	1129	645	381	232	146	94	62	41	28
2M02A012	M16 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	1170	782	536	375	268	195	144	109	83
2M02A013	1/2 - 14 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	1170	782	536	375	268	195	144	109	83
2M02B002	M14 x 1.5	2 Terminali faston 2.7 x 0.8mm 2 Blade terminals 2.7 x 0.8mm	Normalmente aperto Normally open	107°C	2252	1170	782	536	375	268	195	144	109	83
2M02B003	3/8 - 18 NPTF	2 Terminali faston 2.7 x 0.8mm 2 Blade terminals 2.7 x 0.8mm	Normalmente aperto Normally open	107°C	2252	1170	782	536	375	268	195	144	109	83
2M02B004	M18 x 1.5	2 Terminali faston 2.7 x 0.8mm 2 Blade terminals 2.7 x 0.8mm	Normalmente aperto Normally open	107°C	2252	1170	782	536	375	268	195	144	109	83
2M02B005	M16 x 1.5	2 Terminali faston 2.7 x 0.8mm 2 Blade terminals 2.7 x 0.8mm	Normalmente aperto Normally open	110°C	865	468	321	225	161	118	87	66	50	39
2M02B006	1/4 - 18 NPTF	2 Terminali faston 2.8 x 0.8mm 2 Blade terminals 2.8 x 0.8mm	Normalmente aperto Normally open	120°C	2397	1504	997	677	470	334	241	177	133	101
2M02B007	M12 x 1.5	2 Terminali faston 6.5 x 0.8mm e 5 x 0.8mm 2 Blade terminals 6.5 x 0.8mm and 5 x 0.8mm	Normalmente aperto Normally open	107°C	2252	1170	782	536	375	268	195	144	109	83
2M02B010	M16 x 1.5	2 Terminali faston 2.8 x 0.8mm 2 Blade terminals 2.8 x 0.8mm	Normalmente aperto Normally open	110°C	865	468	321	225	161	118	87	66	50	39
2M02D001	M16 x 1.5	2 Terminali faston 6.5 x 0.8mm 2 Blade terminals 6.5 x 0.8mm	Normalmente aperto Normally open	100°C	458	249	171	120	86	63	47	36	27	21
21.017.000	1/8 - 27 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2806	-	-	381	-	-	94	-	-	-
21.0020.0000	1/8 - 27 NPTF	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	-	-	2252	-	-	536	-	-	195	-	-	-
21.0021.0000	M18 x 1.5	S/seal 2 vie 2 pins s/seal	Normalmente aperto Normally open	107°C	2843	1170	-	536	-	268	-	144	-	83
AV.21.0004	3/8 - 18 NPTF	2 Terminali faston 6.5 x 0.8mm 2 Blade terminals 6.5 x 0.8mm	-	-	2499	-	820	-	-	325	-	-	149	118

- **Termocontatti**
- **Thermal switches**

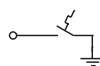
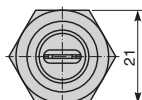
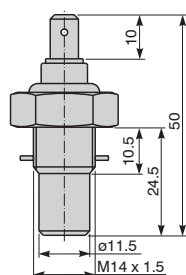


2M020046

Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M14 x 1.5
Chiave: esagono 21 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: M14 x 1.5
Key: hexagon 21 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm



TERMOCONTATTO / THERMAL SWITCH

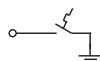
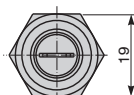
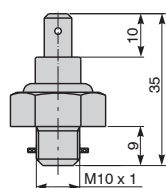
Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
115° ± 3°	5° + 5°/- 0°

2M02L003

Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M10 x 1
Chiave: esagono 19 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: M10 x 1
Key: hexagon 19 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm



TERMOCONTATTO / THERMAL SWITCH

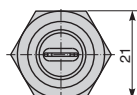
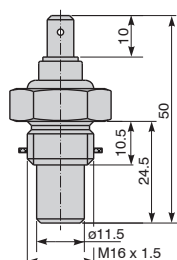
Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
90° ± 3°	5° + 3°/- 3°

2M02L004

Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M16 x 1.5
Chiave: esagono 21 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V
Coppia di serraggio: ≤ 2.5 kgm

Housing material: brass
Thread: M16 x 1.5
Key: hexagon 21 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V
Tighten torque: ≤ 2.5 kgm



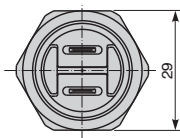
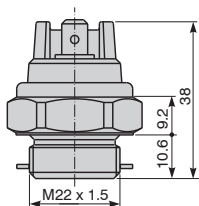
TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
97° + 0°/- 6°	5° + 5°/- 0°

2M02L006Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M22 x 1.5
Chiave: esagono 29 mm
Connessione: 2 terminali faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: M22 x 1.5
Key: hexagon 29 mm.
Connection: 2 blade terminals 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

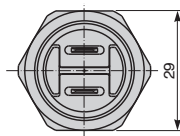
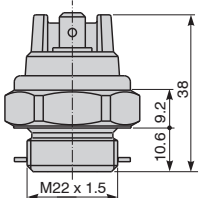
**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
82° ± 3°	14° + 3°/- 0°

2M02L007Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M22 x 1.5
Chiave: esagono 29 mm
Connessione: 2 terminali faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: M22 x 1.5
Key: hexagon 29 mm
Connection: 2 blade terminals 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

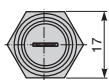
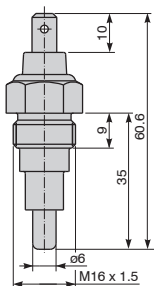
**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
92° ± 3°	5° + 5°/- 0°

2M02L008Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M16 x 1.5
Chiave: esagono 17 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: M16 x 1.5
Key: hexagon 17 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

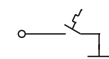
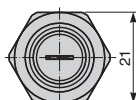
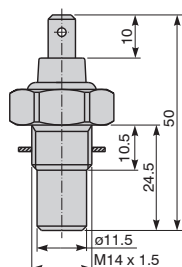
**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
85° ± 3°	5° + 5°/- 0°

2M02L009Termocontatto
Thermal switch

Materiale corpo: ottone
Materiale guarnizione: alluminio
Filettatura: M14 x 1.5
Dado: Esagono 21 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

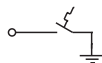
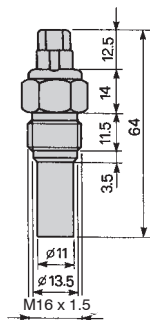
Housing material: brass
Joint material: aluminium
Thread: M14 x 1.5
Key: hexagon 21 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
120° ± 3°	14° ± 4°

21.002.000

Termocontatto
Thermal switch



Materiale corpo: ottone
Filettatura: M16 x 1.5
Chiave: esagono 17 mm
Connessione: spina Ø 4 mm
Tensione di alimentazione: 12 - 24V

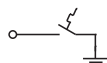
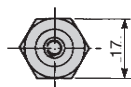
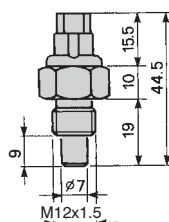
Housing material: brass
Thread: M16 x 1.5
Key: hexagon 17 mm
Connection: pin Ø 4 mm
Power supply voltage: 12 - 24V

TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
95° ± 3°	

21.008.000

Termocontatto
Thermal switch



Materiale corpo: ottone
Filettatura: M12 x 1.5
Chiave: esagono 17 mm
Connessione: spina Ø 4 mm
Tensione di alimentazione: 12 - 24V

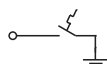
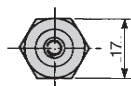
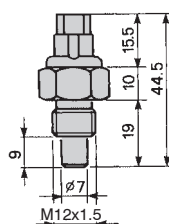
Housing material: brass
Thread: M12 x 1.5
Key: hexagon 17 mm
Connection: pin Ø 4 mm
Power supply voltage: 12 - 24V

TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
140° ± 3°	

21.009.000

Termocontatto
Thermal switch



Materiale corpo: ottone
Filettatura: M12 x 1.5
Chiave: esagono 17 mm
Connessione: spina Ø 4 mm
Tensione di alimentazione: 12 - 24V

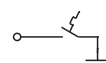
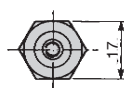
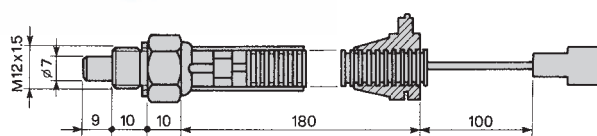
Housing material: brass
Thread: M12 x 1.5
Key: hexagon 17 mm
Connection: pin Ø 4 mm
Power supply voltage: 12 - 24V

TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
170° ± 5°	

21.014.000

Termocontatto
Thermal switch



Materiale corpo: ottone
Filettatura: M12 x 1.5
Chiave: esagono 17 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: M12 x 1.5
Key: hexagon 17 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

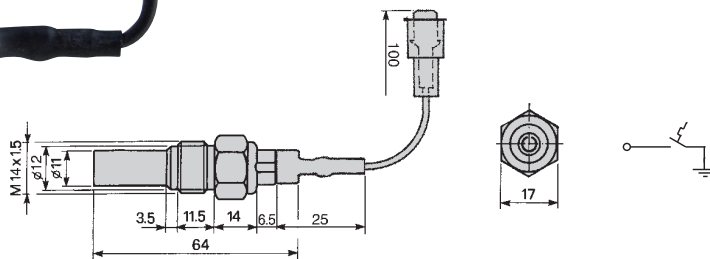
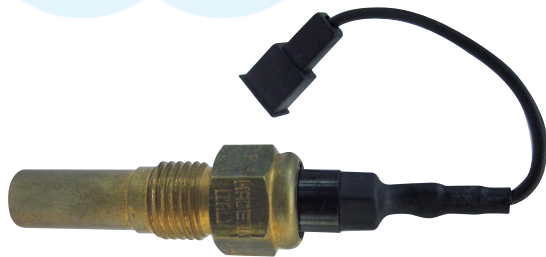
TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
105° ± 10°	

21.0019.0000Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: M14 x 1.5
Chiave: esagono 17 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: M14 x 1.5
Key: hexagon 17 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

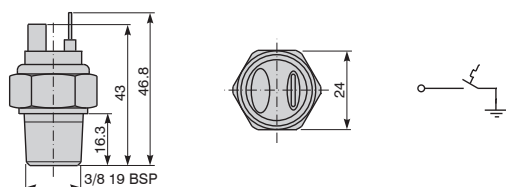
**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
95° ± 3°	8° ÷ 5°

AV.21.0003Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: 3/8 19 BSP
Chiave: esagono 24 mm
Connessione: terminale faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: 3/8 19 BSP
Key: hexagon 24 mm
Connection: blade terminal 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

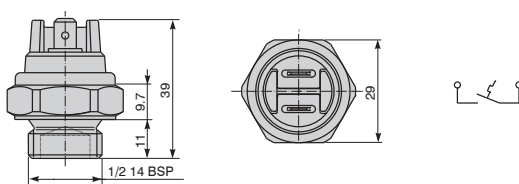
**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
80° ± 3°	5° + 5°/- 0°

AV.21.0005Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: 1/2 14 BSP
Chiave: esagono 29 mm
Connessione: 2 terminali faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: 1/2 14 BSP
Key: hexagon 29 mm
Connection: 2 blade terminals 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

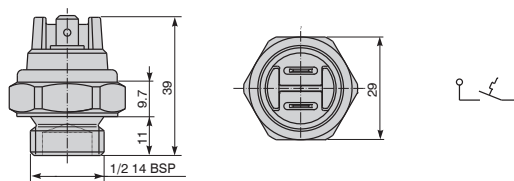
**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
80° ± 3°	10° + 5°/- 0°

AV.21.0006Termocontatto
Thermal switch

Materiale corpo: ottone
Filettatura: 1/2 14 BSP
Chiave: esagono 29 mm
Connessione: 2 terminali faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

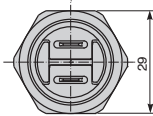
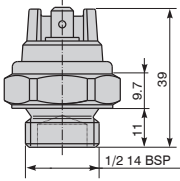
Housing material: brass
Thread: 1/2 14 BSP
Key: hexagon 29 mm
Connection: 2 blade terminals 6.35 x 0.8 mm
Power supply voltage: 12 - 24V

**TERMOCONTATTO / THERMAL SWITCH**

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
70° ± 3°	10° + 5°/- 0°

Materiale corpo: ottone
Filettatura: 1/2 14 BSP
Chiave: esagono 29 mm
Connessione: 2 terminali faston 6.35 x 0.8 mm
Tensione di alimentazione: 12 - 24V

Housing material: brass
Thread: 1/2 14 BSP
Key: hexagon 29 mm
Connection: 2 blade terminals 6.35 x 0.8 mm
Power supply voltage: 12 - 24V



TERMOCONTATTO / THERMAL SWITCH

Temp. contatto C° Switch temp. C°	Isteresi C° Hysteresis C°
45° ± 3°	10° + 5°/- 0°

Tabella riassuntiva / Summary chart

P/N	Filetto Thread	Connessione Connection	Contatto Switch	Temperatura contatto Switch temperature
2M020046	M14 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	115°C
2M02L003	M10 x 1	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	90°C
2M02L004	M16 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	97°C
2M02L006	M22 x 1.5	2 Terminali faston 6.35 x 0.8mm 2 Blade terminals 6.35 x 0.8mm	Normalmente aperto Normally open	82°C
2M02L007	M22 x 1.5	2 Terminali faston 6.35 x 0.8mm 2 Blade terminals 6.35 x 0.8mm	Normalmente aperto Normally open	92°C
2M02L008	M16 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	85°C
2M02L009	M14 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	120°C
21.002.000	M16 x 1.5	Spina Ø 4mm Connection pin Ø 4mm	Normalmente aperto Normally open	95°C
21.008.000	M12 x 1.5	Spina Ø 4mm Connection pin Ø 4mm	Normalmente aperto Normally open	140°C
21.009.000	M12 x 1.5	Spina Ø 4mm Connection pin Ø 4mm	Normalmente aperto Normally open	170°C
21.014.000	M12 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	105°C
21.0019.0000	M14 x 1.5	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	95°C
AV.21.0003	3/8 - 19 BSP	Terminale faston 6.35 x 0.8mm Blade terminal 6.35 x 0.8mm	Normalmente aperto Normally open	80°C
AV.21.0005	1/2 - 14 BSP	2 Terminali faston 6.35 x 0.8mm 2 Blade terminals 6.35 x 0.8mm	Normalmente aperto Normally open	80°C
AV.21.0006	1/2 - 14 BSP	2 Terminali faston 6.35 x 0.8mm 2 Blade terminals 6.35 x 0.8mm	Normalmente aperto Normally open	70°C
AV.21.0007	1/2 - 14 BSP	3 Terminali faston 6.35 x 0.8mm 2 Blade terminals 6.35 x 0.8mm	Normalmente aperto Normally open	45°C

- Sensori di prossimità e generatori di impulsi
- Proximity sensors and pulse generators

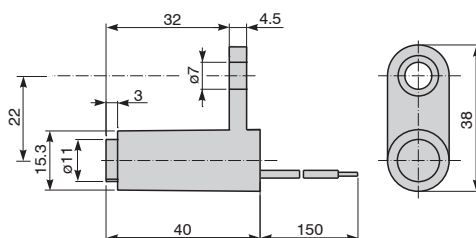


OM020002

Sensore di prossimità
Proximity sensor

Materiale corpo: plastica
Fissaggio: foro Ø7 mm con rinforzo metallico
Connessione: 3 fili - lunghezza 150 mm
Tensione di alimentazione: 12V
Temperatura di funzionamento: - 40°C ÷ +100°C

Housing material: plastics
Fixing: Ø7 mm hole with metal ring
Connection: 3 wires - length 150 mm
Power supply voltage: 12V
Operating temperature: - 40°C ÷ +100°C



Stadio di uscita: transistor con resistenza di pull up.
Viene generata un'onda quadra tra O e tensione di alimentazione.

Output: transistor with pull up resistor generating a square wave between O and supply voltage.

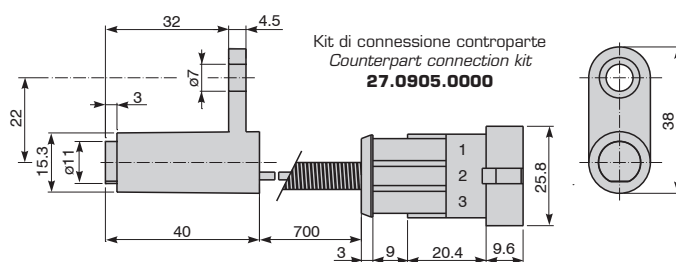
PIN-OUT		
PIN	WIRE COLOR	FUNCTION
1	Red	+Va
2	Blue	SIGNAL
3	Black	GND

OM020005

Sensore di prossimità
Proximity sensor

Materiale corpo: plastica
Fissaggio: foro Ø7 mm con rinforzo metallico
Connessione: s/seal 3 vie
Protezione cavi: guaina corrugata
Tensione di alimentazione: 12V
Temperatura di funzionamento: - 40°C ÷ +100°C

Housing material: plastics
Fixing: Ø7 mm hole with metal ring
Connection: 3 pins s/seal
Cables protection: corrugated sheath
Power supply voltage: 12V
Operating temperature: - 40°C ÷ +100°C



Stadio di uscita: transistor con resistenza di pull up.
Viene generata un'onda quadra tra O e tensione di alimentazione.

Output: transistor with pull up resistor generating a square wave between O and supply voltage.

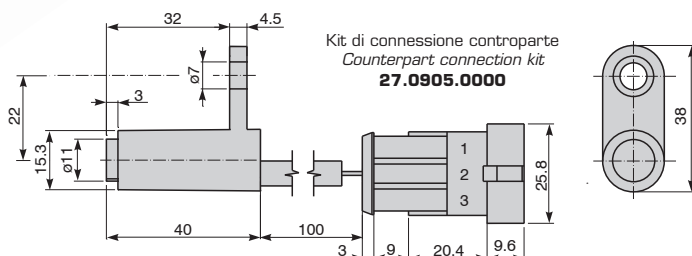
PIN-OUT		
PIN	WIRE COLOR	FUNCTION
1	Red	+Va
2	Blue	SIGNAL
3	Black	GND

OM020006

Sensore di prossimità
Proximity sensor

Materiale corpo: plastica
Fissaggio: foro Ø7 mm con rinforzo metallico
Connessione: s/seal 3 vie
Protezione cavi: guaina termoresistente 105°C
Tensione di alimentazione: 12V
Temperatura di funzionamento: - 40°C ÷ +100°C

Housing material: plastics
Fixing: Ø7 mm hole with metal ring
Connection: 3 pins s/seal
Cables protection: heat resistant sheath 105°C
Power supply voltage: 12V
Operating temperature: - 40°C ÷ +100°C



Stadio di uscita: transistor con resistenza di pull up.
Viene generata un'onda quadra tra O e tensione di alimentazione.

Output: transistor with pull up resistor generating a square wave between O and supply voltage.

PIN-OUT		
PIN	WIRE COLOR	FUNCTION
1	Red	+Va
2	Blue	SIGNAL
3	Black	GND

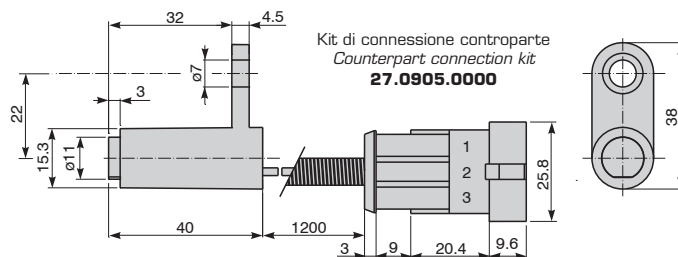
OM020007

Sensore di prossimità
Proximity sensor



Materiale corpo: plastica
Fissaggio: foro Ø7 mm con rinforzo metallico
Connessione: s/seal 3 vie
Protezione cavi: guaina corrugata
Tensione di alimentazione: 12V
Temperatura di funzionamento: - 40°C ÷ +100°C

Housing material: plastics
Fixing: Ø7 mm hole with metal ring
Connection: 3 pins s/seal
Cables protection: corrugated sheath
Power supply voltage: 12V
Operating temperature: - 40°C ÷ +100°C



Stadio di uscita: transistor con resistenza di pull up.
Viene generata un'onda quadra tra O e tensione di alimentazione.

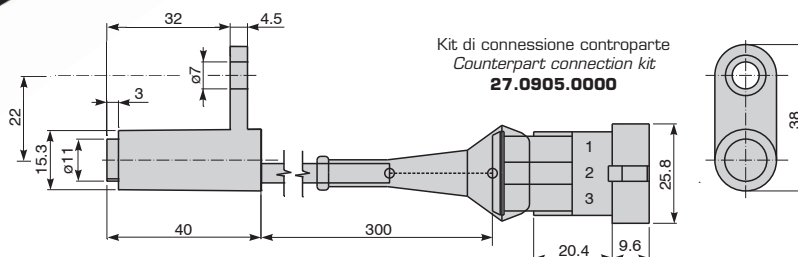
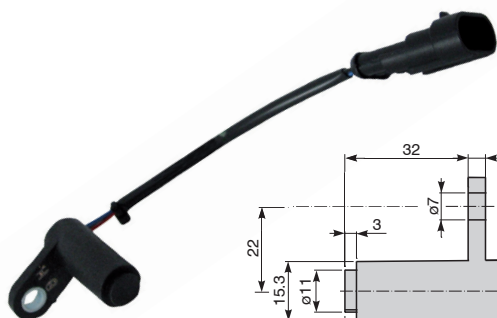
Output: transistor with pull up resistor generating a square wave between O and supply voltage.

PIN-OUT

PIN	WIRE COLOR	FUNCTION
1	Red	+Va
2	Blue	SIGNAL
3	Black	GND

OM020008

Sensore di prossimità
Proximity sensor



Stadio di uscita: transistor con resistenza di pull up.
Viene generata un'onda quadra tra O e tensione di alimentazione.

Output: transistor with pull up resistor generating a square wave between O and supply voltage.

PIN-OUT

PIN	WIRE COLOR	FUNCTION
1	Red	+Va
2	Blue	SIGNAL
3	Black	GND

OM020005

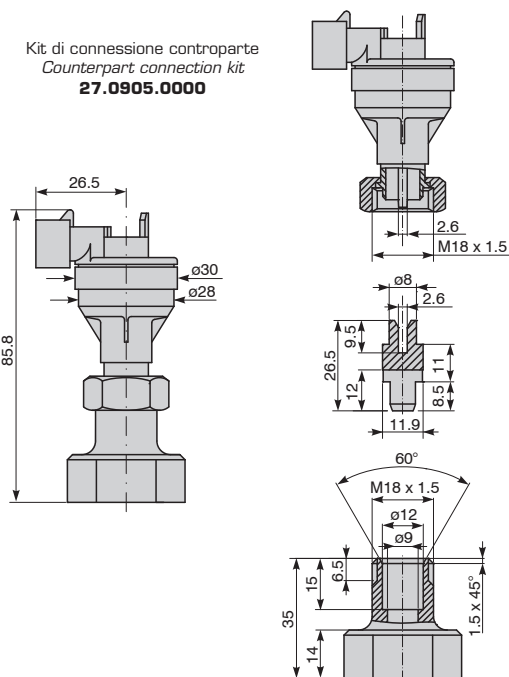
Generatore di impulsi
con riduttore
Pulse generator
with reducer

Materiale corpo riduttore: ottone
Materiale albero: acciaio nitruato
Filettatura: M18 x 1,5
Chiave riduttore: esagono 29,3 mm
Connessione: s/seal 3 vie
Tensione di alimentazione: 10 - 16V
Coppia di serraggio: 10 Nm

Reducer housing material: brass
Shaft material: nitrided steel
Thread: M18 x 1,5
Key reducer: hexagon 29,3 mm
Connection: 3 pins s/seal
Power supply voltage: 10 - 16V
Tighten torque: 10 Nm



Kit di connessione controparte
Counterpart connection kit
27.0905.0000



OM02Q006

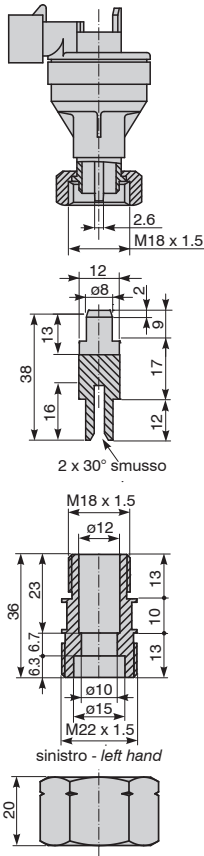
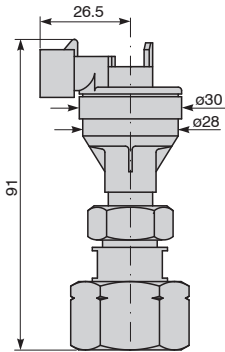
Generatore di impulsi
con riduttore
*Pulse generator
with reducer*

Materiale corpo riduttore: ottone
Materiale albero: acciaio nitrurato
Filettatura: M18 x 1,5
Chiave riduttore: esagono 30 mm
Connessione: s/seal 3 vie
Tensione di alimentazione: 10 - 16V
Coppia di serraggio: 10 Nm

Reducer housing material: brass
Shaft material: nitrided steel
Thread: M18 x 1,5
Key reducer: hexagon 30 mm
Connection: 3 pins s/seal
Power supply voltage: 10 - 16V
Tighten torque: 10 Nm



Kit di connessione controparte
Counterpart connection kit
27.0905.0000

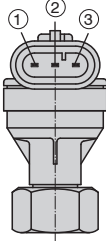
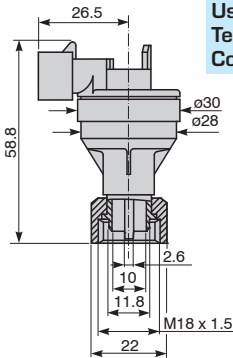


2M02Q005

Generatore di impulsi
Pulse generator

Materiale corpo: plastica
Filettatura: M18 x 1.5
Chiave: esagono 22 mm
Connessione: s/seal 3 vie
Impulsi per giro: 16
R Load: 1 K Ω
Uscita: collettore aperto
Tensione di alimentazione: 10 - 16V
Coppia di serraggio: 10 Nm

Housing material: plastics
Thread: M18 x 1.5
Key: hexagon 22 mm
Connection: 3 pins s/seal
Impulse for turn: 16
R Load: 1 K Ω
Output: open collector
Power supply voltage: 10 - 16V
Tighten torque: 10 Nm



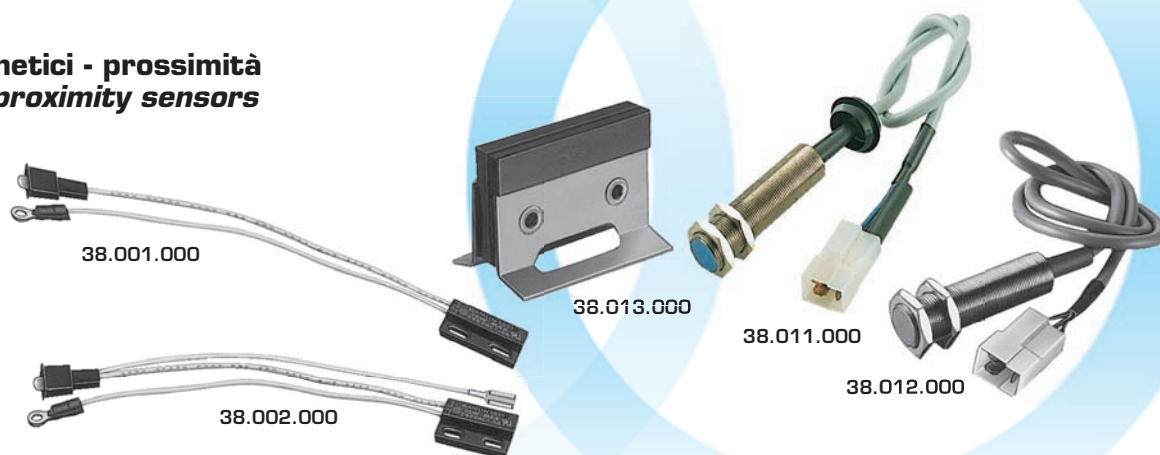
Kit di connessione controparte
Counterpart connection kit
27.0905.0000

PIN-OUT		
PIN	WIRE COLOR	FUNCTION
1	Red	+Va
2	Blue	SIGNAL
3	Black	GND

Tabella riassuntiva / Summary chart

P/N	Filetto Thread	Connessione Connection	Note Notes
0M020002	Foro Ø 7mm Ø 7mm hole	3 fili L = 150 mm 3 wires L = 150 mm	-
0M020005	Foro Ø 7mm Ø 7mm hole	3 vie s/seal 3 pins s/seal	-
0M020006	Foro Ø 7mm Ø 7mm hole	3 vie s/seal 3 pins s/seal	-
0M020007	Foro Ø 7mm Ø 7mm hole	3 vie s/seal 3 pins s/seal	-
0M020008	Foro Ø 7mm Ø 7mm hole	3 vie s/seal 3 pins s/seal	-
0M02Q005	Chiave riduttore esagono 29,3mm Reducer key hexagon 29,3mm	3 vie s/seal 3 pins s/seal	16 impulsi al giro 16 pulse for turn
0M02Q006	Chiave riduttore esagono 30mm Reducer key hexagon 30mm	3 vie s/seal 3 pins s/seal	16 impulsi al giro 16 pulse for turn
2M02Q005	M18 x 1.5	3 vie s/seal 3 pins s/seal	16 impulsi al giro 16 pulse for turn

- Sensori magnetici - prossimit 
- Magnetic & proximity sensors



38.001.000

38.013.000

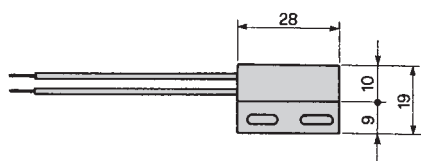
38.011.000

38.012.000

38.002.000

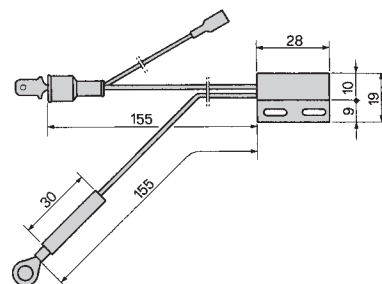
38.001.000

Sensore reed completo normalmente aperto
Normally opened reed sensor



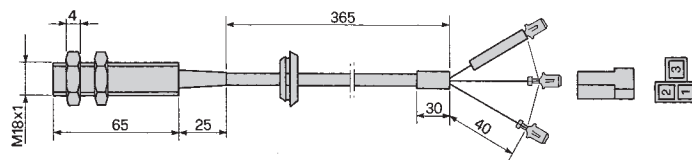
38.002.000

Sensore reed completo
Reed sensor



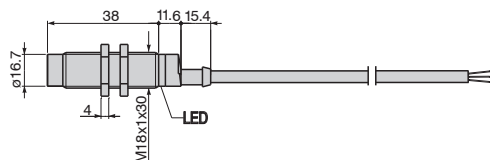
38.012.000

Sensore induttivo controllo giri con resistenza
Revolution control inductive sensor with resistance



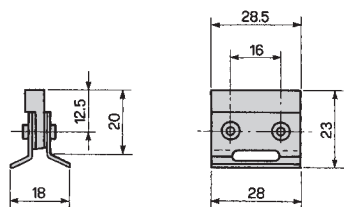
AV.38.0003

Sensore di prossimit  induttivo
Inductive sensor



38.013.000

Attuatore magnetico
Magnet



38.006.000

Attuatore magnetico
Magnet

