

温度传感器

Temperature sensors



20
20



EUROSWITCH
excellence in sensors

双金属温控器
热接触
温度传感器

Temperature sensors
Thermal contacts
Temperature switches

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双金属温控器
Temperature Switches

热接触
Thermal contacts

温度传感器
Temperature Sensors



研发 实验室

research and
development
laboratories



进货质量控制

incoming quality control



生产概述

production overview



认证 / Certifications

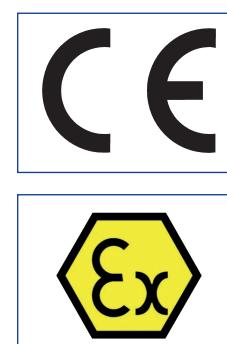


质量管理体系认证UNI EN ISO 9001-2015 (ISO 9001-2015)
Quality Management System UNI EN ISO 9001-2015 (ISO 9001-2015)

质量管理体系认证UNI EN ISO 14001 - 2015 (ISO 14001-2015)
Quality Management System UNI EN ISO 14001-2015 (ISO 14001-2015)



Atex认证
Atex Certification





温控器 / 热接触
Thermostats / Thermal contacts

双金属温控器 / Temperature switches

温控器

Euroswitch提供单极双金属片和快速断路触点温控器，拥有各种不同配置。

介入的温度和误差可根据不同的用途而改变。

介入的温度用接口电路的最低电负荷控制。

主要用途：液压系统、散热器、换热器、润滑系统、汽车等领域的温度控制。

主要存在三种类型：

- 带有SPST常开电触点
- 带有SPST常闭电触点
- 带有SPDT三通切换电触点
- 在图1的常开版本中，触点断开，即在温度不到的情况下不存在电流通过。温度到达设定值后，电触点闭合。
- 图2中展示的是一个在温度不到的情况下，带有常闭电触点的温控器。事实上，我们看到在温度不到的情况下，电触点闭合，在外触点上有信号显示。温度达到设定值后，电触点断开，信号停止。
- 在图3的转换触点版本中，分流器上的液体温度，决定了微动开关的转换。在这个最新版本中，可以无差别地使用常闭、常开电触点或两者兼用。

Thermostats

Euroswitch offers single-pole thermostats with bimetal disc and quick opening contact, available in various configurations.

The cut-in temperature and differential may vary, depending on the specific application.

Cut-in temperatures are controlled with the minimum electric load in the contact circuit.

Main applications: temperature control in hydraulic systems, radiators, heat exchangers, lubrication system, etc.

From an electrical point of view, there three main types:

- with two-way normally-open (NO) electrical contacts (SPST)
- with two-way normally-closed (NC) electrical contacts (SPST)
- with three-way changeover electrical contacts (SPDT)

- In the NORMALLY OPEN (NO) version on Fig. 1, the contact is open, i.e. there is no flow of current in the absence of temperature. When the temperature setting is reached, the electrical contact closes.

- The diagram of Fig. 2 shows a Thermostat with NORMALLY CLOSED (NC) contacts in the absence of temperature.

We can see that the contacts are closed and the signal is present on the external contacts. When the temperature setting is reached, the electrical contact rises and interrupts the signal.

- In the SWITCHING CONTACTS (SPDT) of Fig. 3 version, the temperature of the fluid on the separating element causes a microswitch to switch.

Either NC or NO contacts, or both, can be used in this version.

Operating conditions

Compatibility of the sensor for the intended use must be verified with the specific fluid and under correct operating conditions.

应用条件

传感器应根据具体的液体和环境情况使用。

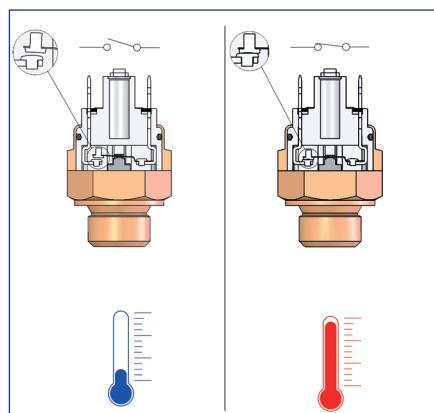


图1
(非捆绑运行示例 - 常开触点)
FIG. 1
(non-binding example - N.O. contact)

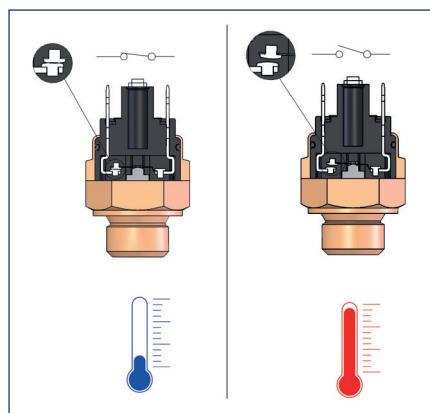


图2
(非捆绑运行示例 - 常闭触点)
FIG. 2
(non-binding example - N.C. Contact)

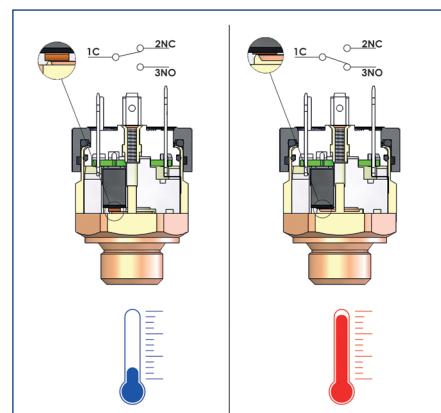


图3
(SPDT三通切换触点)
FIG. 3
Switching contacts (SPDT)

先导电荷

在与每一系列的温控器相关的数据中，列入了触点的电气特性。我们技术部可以为客户解答任何疑问。如果带SPST触点温控器中的温度变化缓慢，建议不要先导特性接近电触点的电流极限值的电荷。在这种情况下，建议在温控器和负荷间插入一个继电器。在带SPDT触点的温控器中，为了使微动开关能够正确工作，要求驱动速度高于0.1MM/SEC，低于1M/SEC。

对于最大开关电压48V以内的产品，需要通过一个SELV类型的系统供电。

Electrical load

The electrical characteristics of the contacts are detailed under each series of temperature switches. Our Technical Department can help customers who have any doubts or queries. In the event of a slow temperature variation in temperature switches with SPST contacts, it is advisable not to pilot electrical loads with characteristics close to the current limits of the contacts. In such a case, it is preferable to put a relay between the temperature switch and the load. In temperature switches with SPDT contacts, correct operation of the microswitch requires an operating speed in the range 0.1 mm/sec to 1 m/sec.

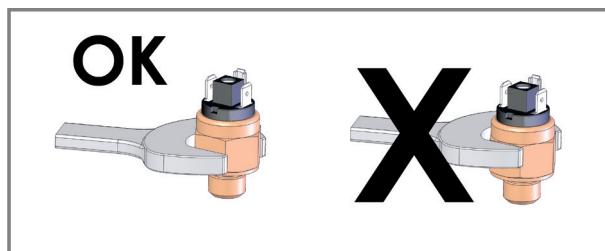
For products with max 48 V power must be managed thanks to a SELV system.

安装

建议纵向安装温控器，电气连接朝上，以避免长时间内在套管中积聚微粒。

Assembly

It is advisable to assemble the temperature switch vertically, with the electrical connection facing upwards, in order to prevent foreign particles from accumulating inside the body.



碰撞和震动

当受到非正常碰撞或强烈震动时，温控器的触点可能会损坏。

Impact and vibration

The temperature switch contact may get damaged if subjected to impact (e.g. if dropped) or strong vibration.

保护盖和连接器

我们所有的温控器都由保护盖和连接器保护。根据类型，防护等级可达IP54或IP65（有些特殊版本可达IP 67）。

Caps and connectors

All our temperature switches can be protected by caps and connectors. The protection degree can be IP54 or IP65, depending on the model.

特别配置

根据特殊要求，可以制作特别配置的温控器（例如：预装电缆的，带有不锈钢套管的，为使用氧气而进行脱脂的等）；有任何需求，请联系我们的技术-销售部，将会为您推荐最适合您的用途的产品。

Special configurations

Euroswitch also manufactures special temperature switches, such as pre-wired, with a stainless steel case, or degreased for use with oxygen. Whatever your requirements, feel free to contact our design and sales office staff, who will be able to suggest the most suitable product to meet your requirements.

CE 标志

这些产品设计符合欧盟现行的指令和标准，并根据以下分类，贴有CE标志：

A) 在50至1000V之间的交流电和75至1500V之间的直流电电压下运行的产品。

符合以下指令：

-2014/35/UE LVD – (低压指令) 并符合EN 60730-1标准及其相关的第2部分。

-2014/30/UE (EMC-电磁兼容性指令)，符合EN 60730-1标准及其相关的第2部分。

B) 在50V交流电和75 V 直流电电压下运行的产品。

符合以下指令：

-2014/30/UE (EMC-电磁兼容性指令)，并符合EN 60730-1标准及其相关的第2部分。

在我们公司总部可以看到上述指令规定的合格声明。

由于Euroswitch产品被归类为非安全组件，所以2006/42/EC《机械指令》不适用。

我们的产品不受制于PED 2014/68/EU《压力设备指令》，因为它们是根据第4条，第3段规定设计的简单组件。

ATEX 2014/34/UE指令也涵盖了在可能爆炸区域安装的版本。

我们的产品符合RoHS规定：有害物质限制规定(RoHS II 2011/65 /UE)

CE Marking

All our products are designed in compliance with current European Union Directives and Standards and bear the CE mark, according to the following classification:

a) Products operating at 50V to 1000V AC and 75V to 1500V DC

Comply with :

- directive 2014/35/EU (LVD – Low Voltage Directive) and in compliance with EN 60730-1 and the relevant part 2.

- directive 2014/30/EU (EMC – Electromagnetic Compatibility Directive) and meet the requirements of EN 60730-1 and the relevant part 2.

b) Products operating at 50V AC and 75V DC comply with:

- directive 2014/30/EU (EMC - Electromagnetic Compatibility Directive) and meet the requirements of EN 60730-1 and the relevant part 2.

The Declaration of Conformity prescribed by the aforementioned directives are available at our headquarters.

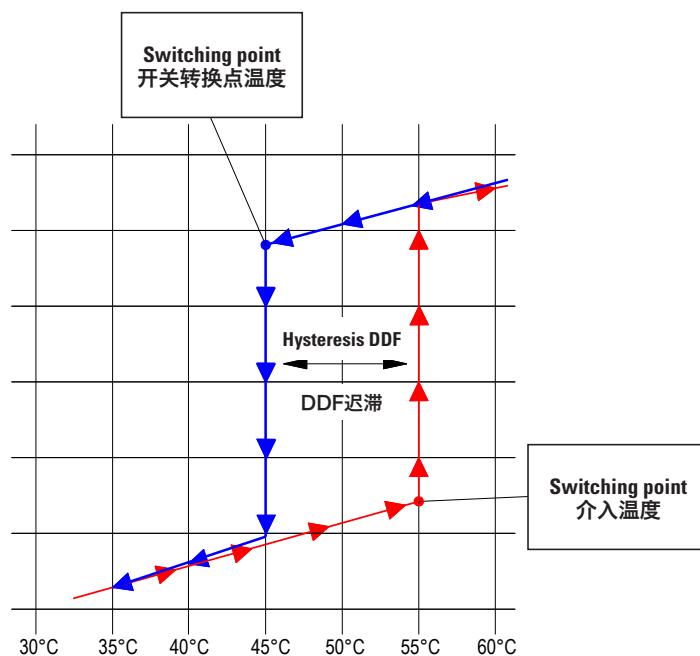
Machine Directive 2006/42/EC is not applicable as Euroswitch products are classified as non-safety-related products.

Our products are not subject to directive 2014/68/UE (PED – Pressure Equipment Directive) as they are simple component parts designed in accordance with art. 4, paragraph 3.

The versions intended for use in potentially explosive areas are also covered by the ATEX Directive 2014/34/EU.

Our products are RoHS compliant: Restriction of Hazardous Substances (RoHS II 2011/65/EU).

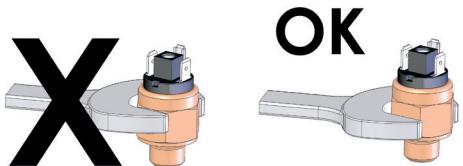
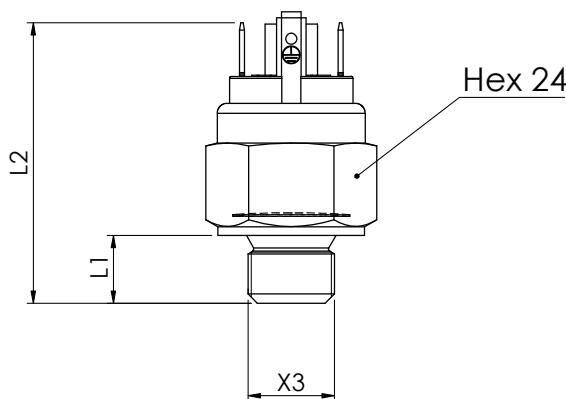
双金属温控器 T=55° 带10K迟滞运行示例 / EXAMPLE OPERATION OF BIMETALLIC THERMOSTAT T=55° WITH 10K HYSTERS



温度单位换算表 / Conversion table for temperature units

	K	°C	F
K	1	K-273.15	9/5 K-459.67
°C	°C + 273.15	1	9/5 °C + 32
F	5/9 (F + 459.67)	5/9 (F-32)	1

根据要求, 可以提供ATEX认证版本
Version ATEX available on request



编码 - PART NUMBER	
电触点 Electric contact	
常开 norm. open	常闭 norm. closed
506 16 ● ■	506 26 ● ■

● 螺纹 (X3)	Threads (X3)	L1	L2 (mm)	■ 温度	Temperature
01 1/4" G	01 1/4" G	9,7	44,7	从 25°C 到 120°C from 25° to 120°C	with intervals of 5°C
02 3/8" G	02 3/8" G	11	46	间隔 5°C	
05 M14x1,5	05 M14x1,5	11	46		
16 M16x1,5	16 M16x1,5	11	46		
07 M22x1,5	07 M22x1,5	11	46		
08 1/2" G	08 1/2" G	11	46		

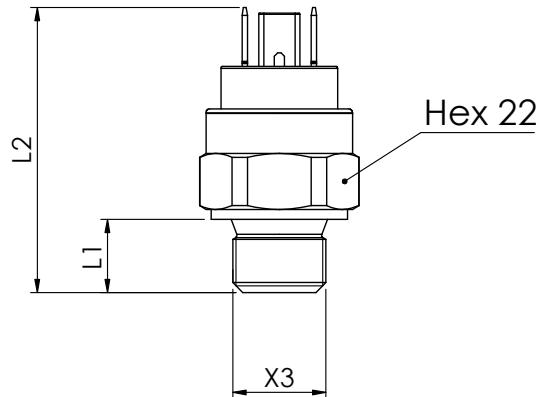
套管	黄铜 (根据要求, 不锈钢)
电气情况	常开 (灰色) 或常闭 (黑色)
误差	7 / 13 K
介入公差	+/- 5K
电气特性	10 (4) A / 12Vac 10 (3) A / 24Vac 12 (2) A / 125Vac 10 (1) A / 250Vac 2 A / 12Vdc
最高环境温度	+120°C
周期次数	100.000
每分钟周期次数	最多5次
突动触点	
温度变化率	1÷2 K/分钟
最大拧紧扭矩	40 Nm
连接	Faston公端 6,3 x 0,8和接地
防护等级	IP00 带防护盖 3015001: IP54 (见11页) 带防护盖 3900001: IP65 (见11页) 带防护盖3900200: IP65 (见11页) 带树脂密封电缆: IP67 (见11页)
最大压力	80 bar (可根据要求订制)
重量	~ 50gr

Case	Brass (stainless steel on request)
Electrical condition	N.O. (grey) or N.C. (black)
Differential	7 / 13 K
Intervention tolerance	+/- 5K
Electrical characteristics	10 (4) A / 12Vac 10 (3) A / 24Vac 12 (2) A / 125Vac 10 (1) A / 250Vac 2 A / 12Vdc
Max ambient temperature	+120°C
Number of cycles	100.000
Number of cycles/minute	max 5
Snap action contact	
Temp. change rate	1÷2 K/min
Tightening torque max	40 Nm
Connection	faston male 6,3 x 0,8 and grounding
Protection degree	IP00 with cap. 3015001: IP54 (see p. 15) with cap. 3900001: IP65 (see p. 15) with cap. 3900200: IP65 (see p. 15) with cable sealed by resin: IP67 (see p. 15)
Max Pressure	80 bar (other value on request)
Weight	~ 50gr

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页, 以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

本公司保留随时修改产品技术特征或停止生产的权利, 恕不另行通知。The Company reserves the right to modify the technical features of the products or halt production at any time without notice.



编码 - PART NUMBER

电触点 Electric contact	
常开 norm. open	常闭 norm. closed
525 16 ● ■	525 26 ● ■

● 螺纹 (X3)	Threads (X3)	L1	L2 (mm)	■ 温度	Temperature
01 1/4" G	01 1/4" G	9,7	41,3	从 25°C 到 120°C	from 25° to 110°C
02 3/8" G	02 3/8" G	11	43	间隔 5°C	with intervals of 5°C
05 M14x1,5	05 M14x1,5	11	43		

套管	黄铜 (根据要求, 不锈钢)
电气情况	常开 (灰色) 或常闭 (黑色)
误差	7 / 13K
介入公差	+/- 5K
电气特性	10 (4) A / 12Vac 10 (3) A / 24Vac 6 (1) A / 12Vdc
最高环境温度	+120°C
周期次数	100.000
每分钟周期次数	最多5次
突动触点	
温度变化率	1÷2 K/分钟
最大拧紧扭矩	25 Nm
连接	Faston公端 6,3 x 0,8
防护等级	IP00 带防护盖 3015200: IP54 (见11页)
最大压力	80 bar (可根据要求订制)
重量	~ 40gr

Case	Brass (stainless steel on request)
Electrical condition	N.O. (grey) or N.C. (black)
Differential	7 / 13K
Intervention tolerance	+/- 5K
Electrical characteristics	10 (4) A / 12Vac 10 (3) A / 24Vac 6 (1) A / 12Vdc
Max ambient temperature	+120°C
Number of cycles	100.000
Number of cycles/minute	max 5
Snap action contact	
Temp. change rate	1÷2 K/min
Tightening torque max	25 Nm
Connection	faston male 6,3 x 0,8
Protection degree	IP00 with cap. 3015200: IP54 (see p. 15)
Max Pressure	80 bar (other value on request)
Weight	~ 40gr

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

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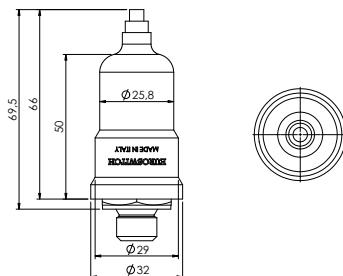
保护盖和安全连接器 - Protection cap and connectors

橡胶保护盖

Rubber protective cap

IP54

cod. 3015200 for type mod. 525 Hex 22
cod. 3015001 for type mod. 506 Hex 24

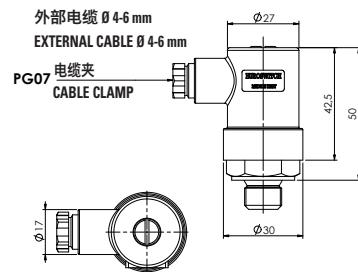


塑料保护盖

Plastic protection cap

IP65

cod. 3900001
for type mod. 506

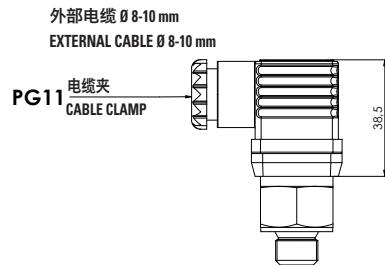


安全连接器

Protective connector

IP65

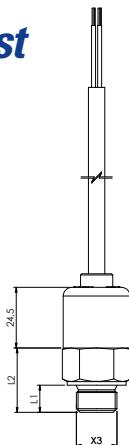
cod. 3900200
for type mod. 506



保护盖和安全连接器

Wired version on request

IP67



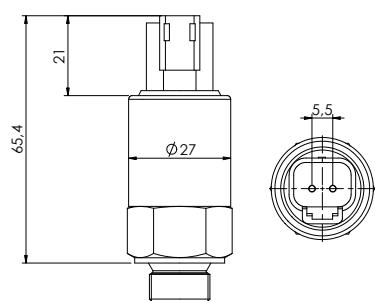
最高环境温度 100 °C
Max environment temperature 100 °C

集成连接器 - Integrated connectors

Deutsch DT 04-2P 连接器

Connector Deutsch DT 04-2P

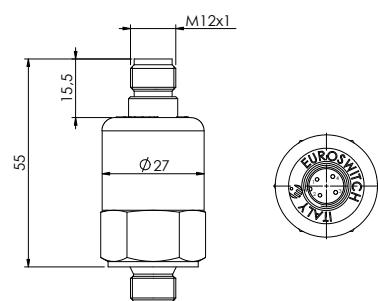
IP67



M12x1 连接器

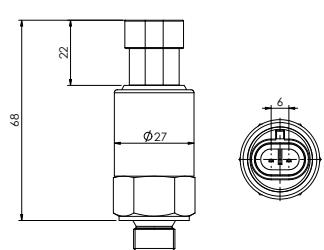
Connector M12x1

IP67



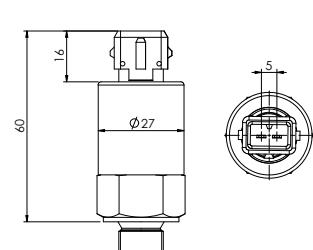
AMP类型Superseal 1.5 2路连接器
Connector type AMP Superseal 1.5 2 way

IP67



AMP类型Junior Power Timer (电源定时器) 连接器
Connector Type AMP Junior Power Timer

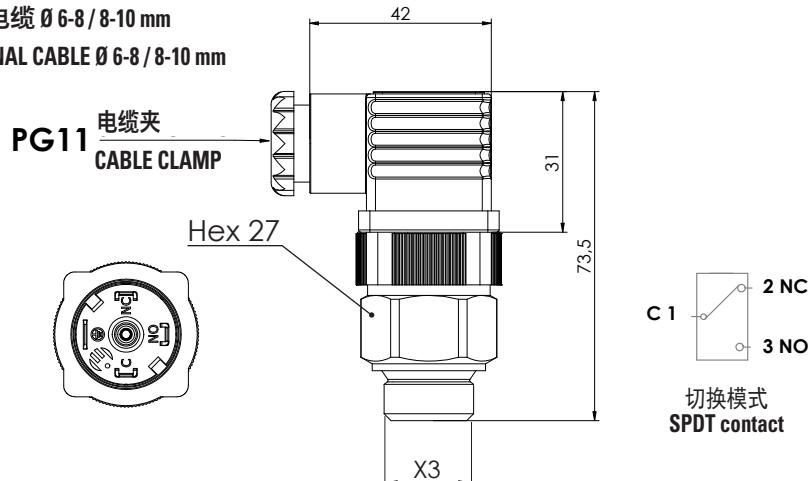
IP67



 根据要求，可以提供ATEX认证版本
Version ATEX available on request



外部电缆 Ø 6-8 / 8-10 mm
EXTERNAL CABLE Ø 6-8 / 8-10 mm



编码 - PART NUMBER

507 21 ● ■

● 螺纹 (X3)	Threads (X3)	■ 温度	Temperature
02 3/8" G	02 3/8" G	从 35°C 到 85°C	from 35° to 85°C
05 M14x1,5	05 M14x1,5	间隔 5°C	with intervals of 5°C
07 M22x1,5	07 M22x1,5		
08 1/2" G	08 1/2" G		

套管	黄铜 (根据要求, 不锈钢)
电气情况	SPDT (转换触点)
误差	15 / 20K
介入公差	+/- 5K
电气特性	5(4) A / 14Vdc 4(3) A / 30Vdc 5 (3) A / 125Vac 3 (2) A / 250Vac
最高环境温度	+85°C
周期次数	100.000
每分钟周期次数	最多5次
突动触点	
温度变化率	1÷2 K/分钟
最大拧紧扭矩	40 Nm
连接	Faston公端 6,3 x 0,8和接地
防护等级	IP65
符合UNI EN 175301-803 (DIN43650)标准的电触点	
最大压力	80 bar (可根据要求订制)
重量	~ 100gr

Case	Brass (stainless steel on request)
Electrical condition	SPDT (exchange contact)
Differential	15 / 20K
Intervention tolerance	+/- 5K
Electrical characteristics	5(4) A / 14Vdc 4(3) A / 30Vdc 5 (3) A / 125Vac 3 (2) A / 250Vac
Max ambient temperature	+85°C
Number of cycles	100.000
Number of cycles/min	max 5
Snap action contact	
Temp. change rate	1÷2 K/min
Tightening torque max	40 Nm
Connection	faston male 6,3 x 0,8 and grounding
Protection degree	IP65
with connector according to UNI EN 175301-803 (DIN43650)	
Max pressure	80 bar (other value on request)
Weight	~ 100gr

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

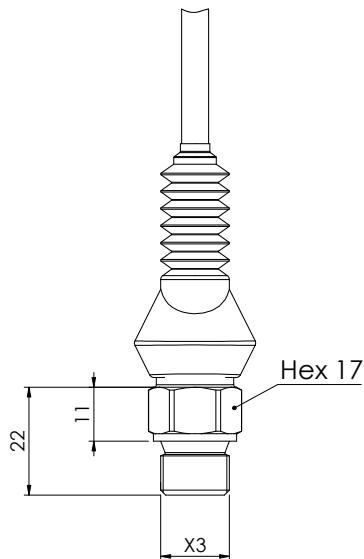
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双金属温控器 HEX 17

BIMETALLIC THERMOSTAT HEX 17

520

 可要求高温版本
High Temperature version available on request



编码 - PART NUMBER

电触点 Electric contact	
常开 norm. open	常闭 norm. closed
520 71	520 72

螺纹 (X3) Threads (X3)	温度 Temperature
01 1/4" G	从 40°C 到 100°C from 40° to 100°C
04 M12x1,5	间隔 10°C with intervals of 10°C
05 M14x1,5	

电气情况	常开 或常闭
电气连接	HT 105 PVC电线 (可根据要求订制)
介入温度	可要求其他
误差	5/10K
介入公差	+/- 5K
电气特性	12Vcc / 6 A
最高环境温度	标准电缆+105°C (根据要求, 可以有+150°C的高温版本)
周期次数	100.000
每分钟周期次数	最多5次
突动触点	
温度变化率	1÷2 K/分钟
螺纹(X3)	M14x1,5 (可根据要求订制)
最大拧紧扭矩	25 Nm
防护等级	IP67

Electrical condition	N.O. or N.C.
Electrical connection	PVC HT 105 cable (others on request)
Temperatures intervention	on request
Differential	5/10K
Intervention tolerance	+/- 5K
Electrical characteristics	12Vcc / 6 A
Max ambient temperature	+105°C for standard cable (on request HT version for +150°C)
Number of cycles	100.000
Number of cycles/minute	max 5
Snap action contact	
Temp. change rate	1÷2 K/min
Thread (X3)	M14x1,5 (others on request)
Tightening torque max	25 Nm
Protection degree	IP67

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热接触 / Thermal contacts

热接触

Euroswitch提供单极双金属片和快速断路触点热接触，拥有各种不同配置。

介入的温度可根据不同的用途而改变。

介入的温度用接口电路的最低电负荷控制。

主要用途：液压系统、散热器、换热器、润滑系统、汽车等领域的温度控制。

应用

传感器应根据具体的液体和环境情况使用。

电负荷

安装系统应当保障接地。

应当通过一个SELV类型的系统保障供电。

CE 标志

这些产品的设计符合欧盟现行的指令和标准，并根据以下分类，贴有CE标志：

A) 在50至1000V之间的交流电和75至1500V之间的直流电电压下运行的产品。

符合以下指令：

-2014/35/UE LVD – (低压指令) 并符合EN 60730-1标准及其相关的第2部分。

-2014/30/UE (EMC-电磁兼容性指令)，符合EN 60730-1标准及其相关的第2部分。

B) 在50V交流电和75 V 直流电电压下运行的产品。

符合以下指令：

-2014/30/UE (EMC-电磁兼容性指令)，并符合EN 60730-1标准及其相关的第2部分。

在我们公司总部可以看到上述指令规定的合格声明。

由于Euroswwitch产品被归类为非安全组件，所以2006/42/EC《机械指令》不适用。

我们的产品不受制于PED 2014/68/EU《压力设备指令》，因为它们是根据第4条，第3段规定设计的简单组件。

ATEX 2014/34/UE指令也涵盖了在可能爆炸区域安装的版本。

我们的产品符合RoHS规定：有害物质限制规定(RoHS II 2011/65 /UE)

Thermocontacts

Euroswitch offers single-pole thermocontacts with bimetal disc and quick opening contact, available in various configurations.

The cut-in temperature and differential may vary, depending on the specific application.

Cut-in temperatures are controlled with the minimum electric load in the contact circuit.

Main applications: temperature control in hydraulic systems, radiators, heat exchangers, lubrication system, etc.

Operating conditions

Compatibility of the sensor for the intended use must be verified with the specific fluid and under correct operating conditions.

Electrical load

Grounding must fasten by assembling system.

Power must be mended thanks to a SELV system.

CE Marking

All our products are designed in compliance with current European Union Directives and Standards and bear the CE mark, according to the following classification:

a) Products operating at 50V to 1000V AC and 75V to 1500V DC

Comply with :

- directive 2014/35/EU (LVD – Low Voltage Directive) and in compliance with EN 60730-1 and the relevant part 2.

- directive 2014/30/EU (EMC – Electromagnetic Compatibility Directive) and meet the requirements of EN 60730-1 and the relevant part 2.

b) Products operating at 50V AC and 75V DC comply with:

- directive 2014/30/EU (EMC - Electromagnetic Compatibility Directive) and meet the requirements of EN 60730-1 and the relevant part 2.

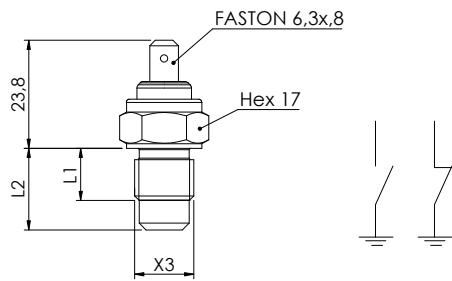
The Declaration of Conformity prescribed by the aforementioned directives are available at our headquarters.

Machine Directive 2006/42/EC is not applicable as Euroswitch products are classified as non-safety-related products.

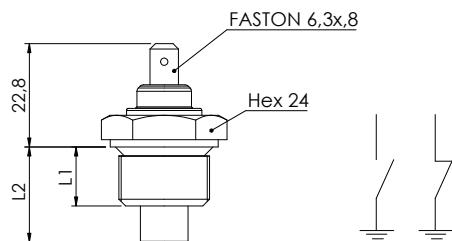
Our products are not subject to directive 2014/68/UE (PED – Pressure Equipment Directive) as they are simple component parts designed in accordance with art. 4, paragraph 3.

The versions intended for use in potentially explosive areas are also covered by the ATEX Directive 2014/34/EU.

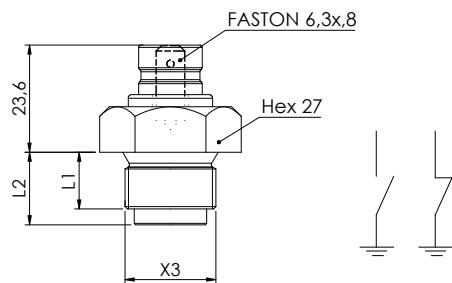
Our products are RoHS compliant: Restriction of Hazardous Substances (RoHS II 2011/65/EU).



510



514



519



套管	黄铜套管
材质	PA 6.6
触点	常开 (可要求常闭)
介入温度	30 ÷ 130°C
介入公差	+/- 5 K
误差	10 ÷ 20K
工作电压	6 ÷ 24 Vdc
最大电流	300 mA
拧紧扭矩	510 - ch. 17 12 Nm 514 - ch. 24 519 - ch. 27 30 Nm
电气连接	快速端子 6,3x0,8
温度变化率	1÷2 K/分钟
螺纹(X3)和L-L1值	根据要求
防护等级	IP00保护盖 (请见第8页)
污染情况	正常
驱动类型	1B

Case	Brass body
Support material	PA 6.6
Contact	N.O. (on request N.C.)
Temp. intervention	30 ÷ 130°C
Intervention tolerance	+/- 5 K
Differential	10 ÷ 20K
Working voltage	6 ÷ 24 Vdc
Max resistive current	300 mA
Tightning torque	510 - ch. 17 12Nm 514 - ch. 24 519 - ch. 27 30 Nm
Electrical connection	male faston 6,3x0,8
Temperature changerate	1 ÷ 2 K/min
Threads (X3) and L1 - L2	(on request)
Protection degree	IP 00 cap (see p. 8)
Pollution situation	normal
Action type	1B

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温度传感器 / Temperature sensors

NTC-PTC-PT100-PT1000传感器

EUROSWITCH提供一系列探头和传感器，包括定制产品，以满足各行业的温度控制或调节需求，涉及领域包括：制冷、制热、咖啡机、自动饮料贩卖机、家电、汽车、仪表等。

应用条件

传感器应根据具体的液体和环境情况使用。

CE 标志

这些产品的设计符合欧盟现行的指令和标准，并根据以下分类，贴有CE标志：

A) 在50至1000V之间的交流电和75至1500V之间的直流电电压下运行的产品。

符合以下指令：

-2014/35/UE LVD – (低压指令) 并符合EN 60730-1标准及其相关的第2部分。

-2014/30/UE (EMC-电磁兼容性指令)，符合EN 60730-1标准及其相关的第2部分。

B) 在50V交流电和75 V 直流电电压下运行的产品。

符合以下指令：

-2014/30/UE (EMC-电磁兼容性指令)，并符合EN 60730-1标准及其相关的第2部分。

在我们公司总部可以看到上述指令规定的合格声明。

由于Euroswitch产品被归类为非安全组件，所以2006/42/EC《机械指令》不适用。

我们的产品不受制于PED 2014/68/EU《压力设备指令》，因为它们是根据第4条，第3段规定设计的简单组件。

ATEX 2014/34/UE指令也涵盖了在可能爆炸区域安装的版本。

我们的产品符合RoHS规定：有害物质限制规定(RoHS II 2011/65 /UE)

NTC-PTC-PT100-PT1000 sensors

Euroswitch offers a vast range of probes and sensors that can be customised on request to meet all requirements in the control or regulation of temperature in the following fields: refrigeration, heating, coffee machines, automatic beverage dispensers, household appliances, automotive, instruments, etc.

Operating conditions

Compatibility of the sensor for the intended use must be verified with the specific fluid and under correct operating conditions.

CE Marking

All our products are designed in compliance with current European Union Directives and Standards and bear the CE mark, according to the following classification:

a) Products operating at 50V to 1000V AC and 75V to 1500V DC

Comply with :

- directive 2014/35/EU (LVD – Low Voltage Directive) and in compliance with EN 60730-1 and the relevant part 2.
- directive 2014/30/EU (EMC – Electromagnetic Compatibility Directive) and meet the requirements of EN 60730-1 and the relevant part 2.

b) Products operating at 50V AC and 75V DC comply with:

- directive 2014/30/EU (EMC - Electromagnetic Compatibility Directive) and meet the requirements of EN 60730-1 and the relevant part 2.

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Machine Directive 2006/42/EC is not applicable as Euroswitch products are classified as non-safety-related products.

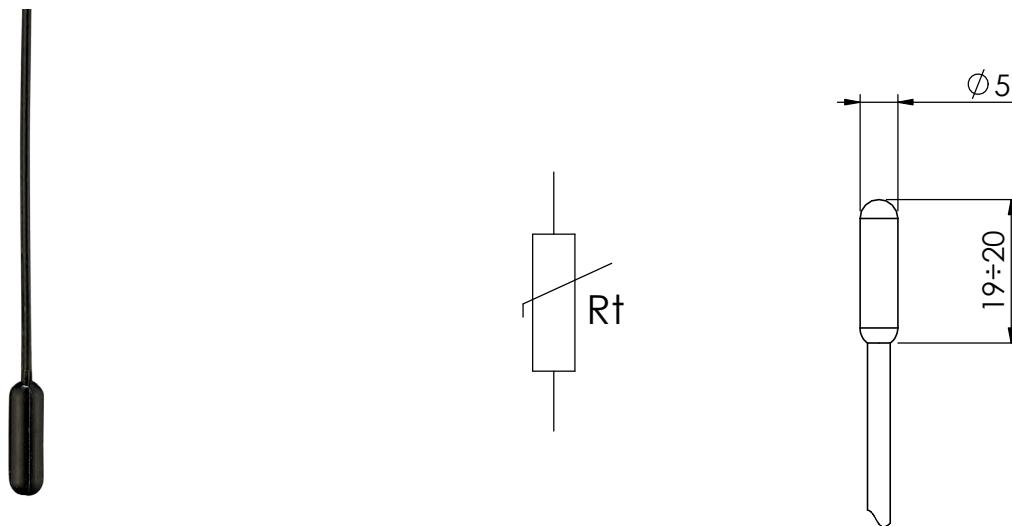
Our products are not subject to directive 2014/68/EU (PED – Pressure Equipment Directive) as they are simple component parts designed in accordance with art. 4, paragraph 3.

The versions intended for use in potentially explosive areas are also covered by the ATEX Directive 2014/34/EU.

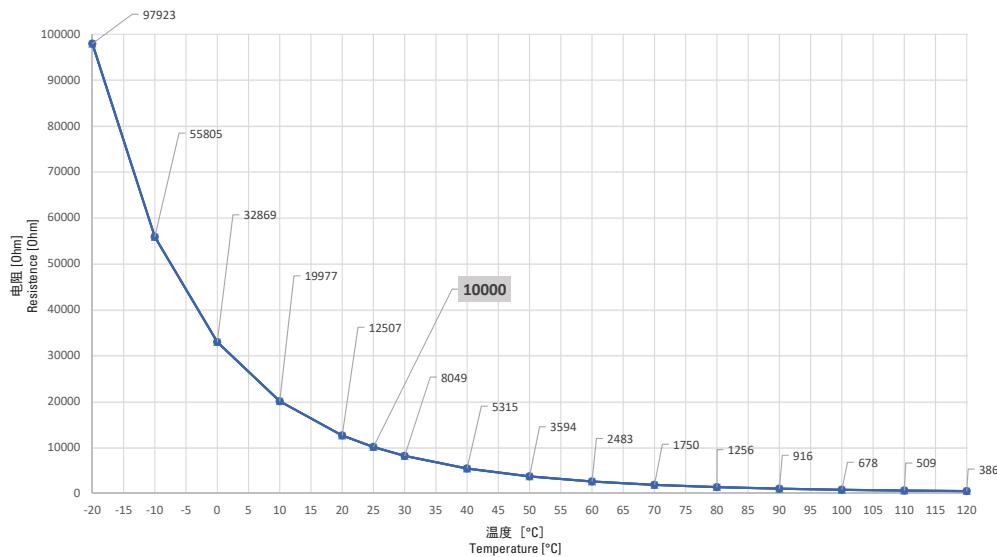
Our products are RoHS compliant: Restriction of Hazardous Substances (RoHS II 2011/65/EU).



温度传感器
Temperature sensors



NTC曲线示例 10Kohm B25/85= 3977K
Example of curve 10Kohm B25/85= 3977K



热敏电阻	NTC - PTC - PT 100 - PT 1000
电气连接	PVC电线（可根据要求订制）
保护罩	树脂模塑
工作温度	-20 / +120°C (可要求其他)
防护等级	IP65 - IP67

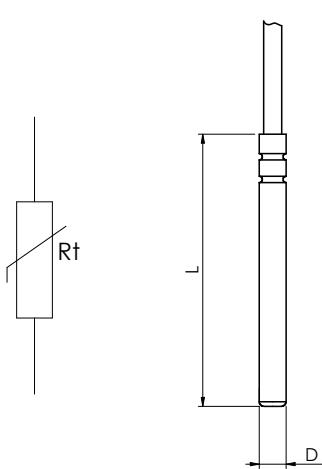
Thermistor	NTC - PTC - PT 100 - PT 1000
Electrical connection	PVC cable (others on request)
Coat	moulded resin
Working temperature	-20 / +120 °C (others on request)
Protection degree	IP65 - IP67

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

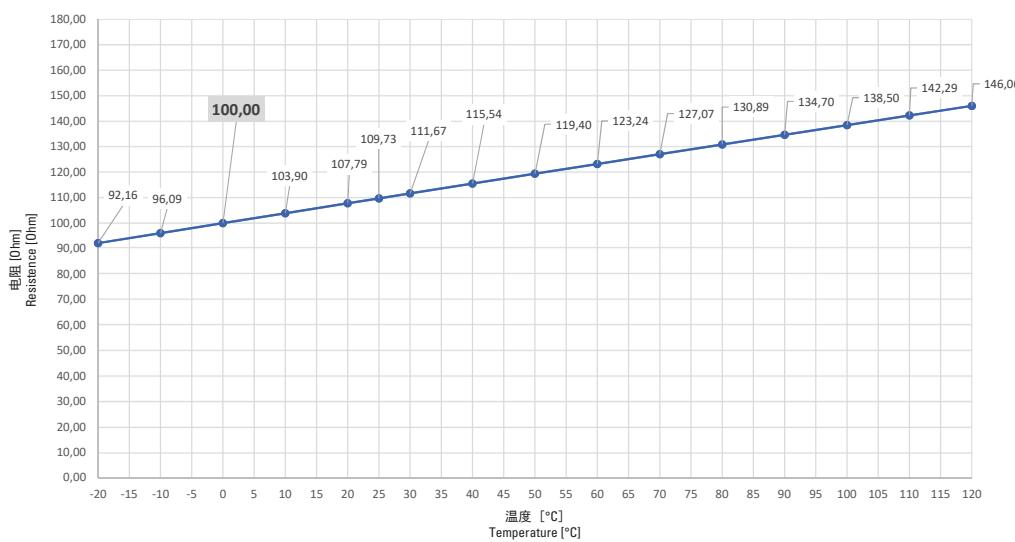
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 可要求高温版本
High Temperature version available on request



可用解决方案示例
Example of available solutions

PT100 - IEC 751 曲线示例
Example of curve PT100 - IEC 751



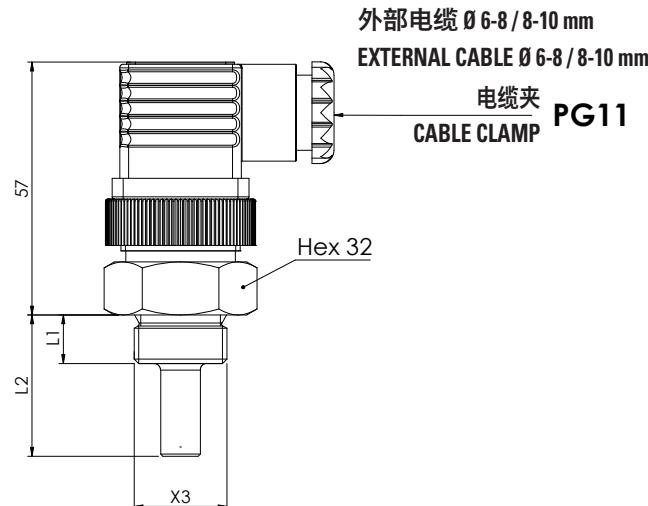
D (mm)	L (mm)
4	40
4	100
5,9	32
5,9	39
5,9	50
5,9	60

热敏电阻	NTC - PTC - PT 100 - PT 1000
电气连接	可要求其他
套管	黄铜-不锈钢-青铜
工作温度	-20 / +120 °C (可根据要求订制)
防护等级	IP65 - IP67

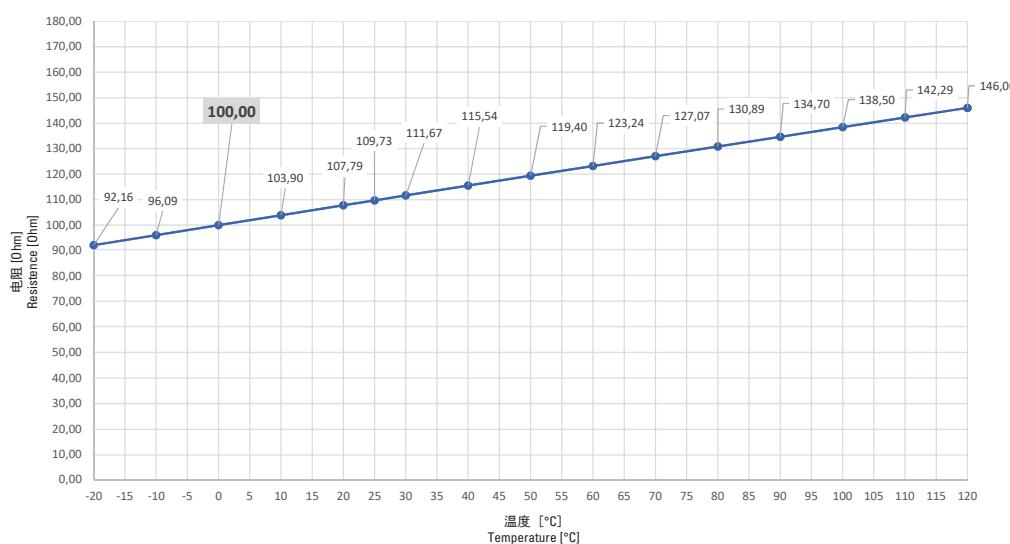
Thermistor	NTC - PTC - PT 100 - PT 1000
Electrical connection	on request
Case	brass - stainless steel - bronze
Working temperature	-20 / +120 °C (others on request)
Protection degree	IP65 - IP67

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PT100 - IEC 751 曲线示例
Example of curve PT100 - IEC 751



热敏电阻	NTC - PTC - PT 100 - PT 1000
热敏电阻罩	树脂
套管	黄铜 (可要求不锈钢)
螺纹(X3)和L1-L2值	(根据要求)
工作温度	-20 +120°C
连接器	IP65 符合 UNI EN 175301-803 (DIN43650)

Thermistor	NTC - PTC - PT 100 - PT 1000
Thermistor Coat	resin
Case	brass (on request stainless steel)
Threads (X3) and L1 - L2	(on request)
Working temperature	-20 +120°C
Connector	IP65 according to UNI EN 175301-803 (DIN43650)

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

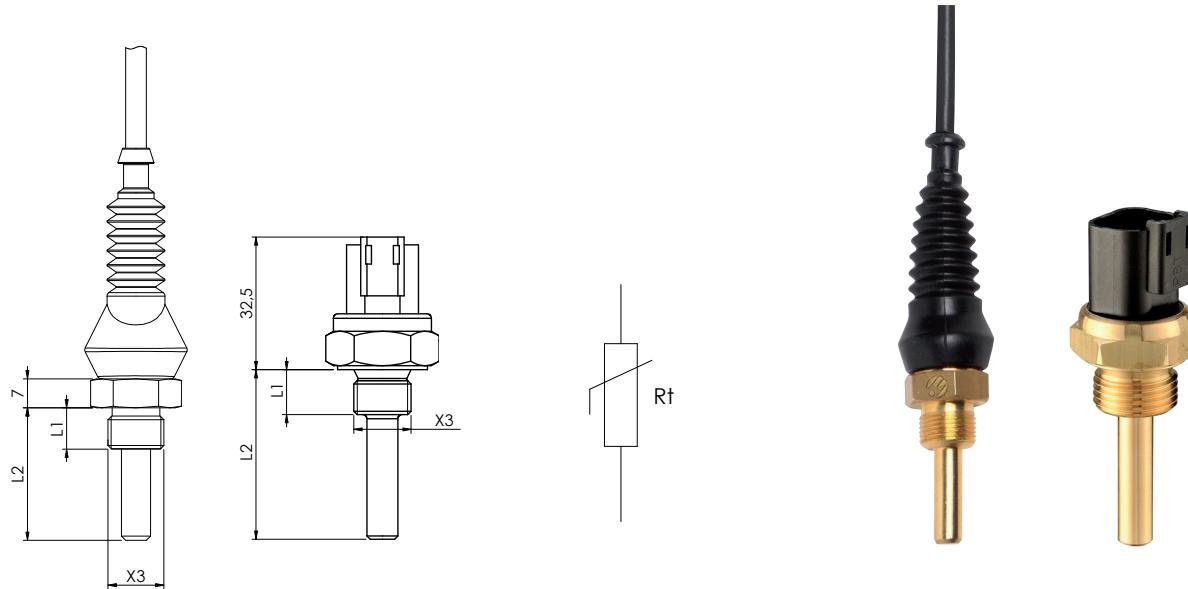
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带电缆和连接器温度传感器

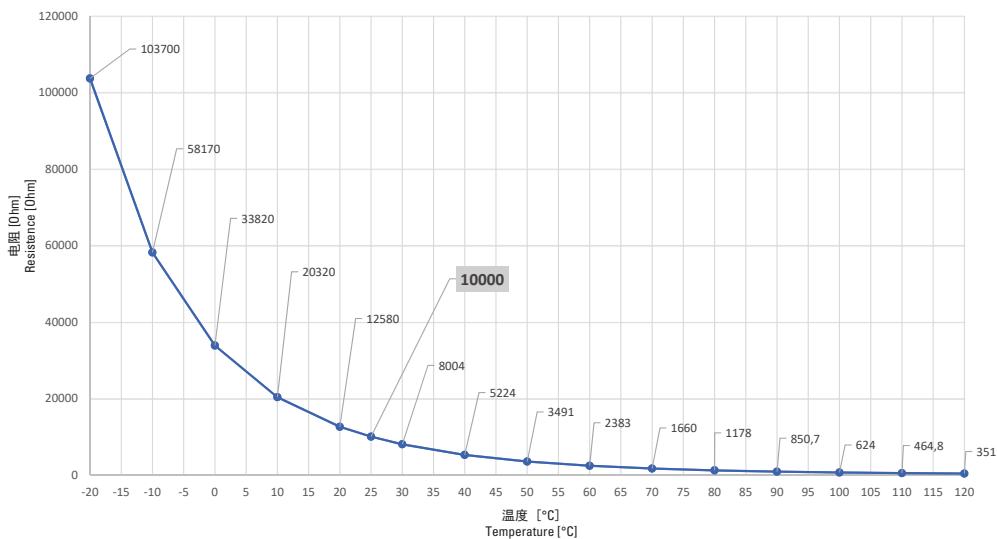
TEMPERATURE SENSORS WITH CABLE AND CONNECTOR

580

 可要求高温版本
High Temperature version available on request



NTC 10Kohm $B_{25/85}=4100K$ 曲线示例
Example of curve NTC 10Kohm $B_{25/85}=4100K$



热敏电阻	NTC - PTC - PT 100 - PT 1000
电气连接	根据要求
热敏电阻罩	树脂
套管	黄铜 (可要求不锈钢)
螺纹(X3)和L1-L2值	(根据要求)
工作温度	-20 / +120°C (可根据要求订制)
防护等级	IP65/67

Thermistor	NTC - PTC - PT 100 - PT 1000
Electrical connection	on request
Thermistor Coat	resin
Case	brass (on request stainless steel)
Threads (X3) and L1 - L2	(on request)
Working temperature	-20 / +120°C (others on request)
Protection degree	IP65/67

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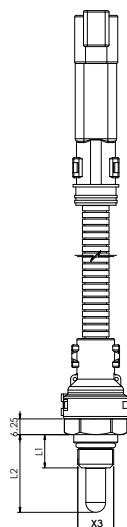
For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

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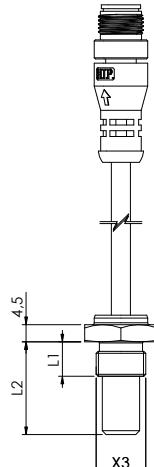
580型号 - 电缆连接示例

Model 580 - Ready wired connections examples

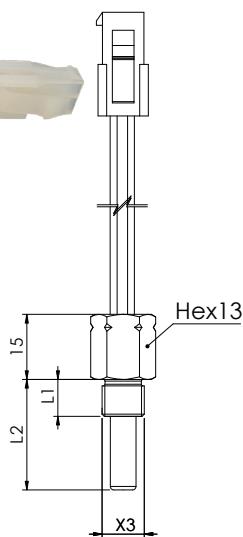
Deutsch DT 04-2P 连接器的电缆
Cable with Connector Deutsch DT 04-2P



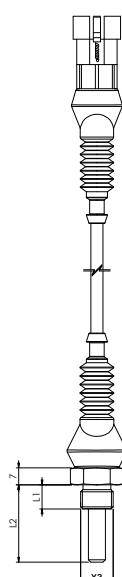
M12x1连接器的电缆
Cable with Connector type M12x1



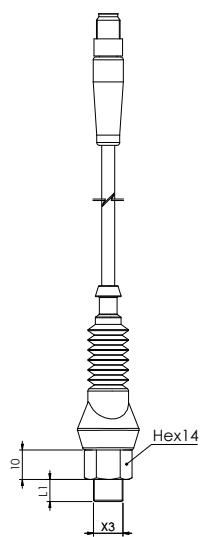
Mini-fit Jr 连接器的电缆
Cable with Mini-fit Jr Connector



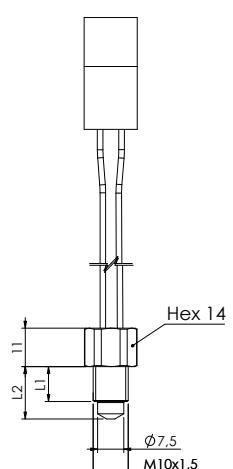
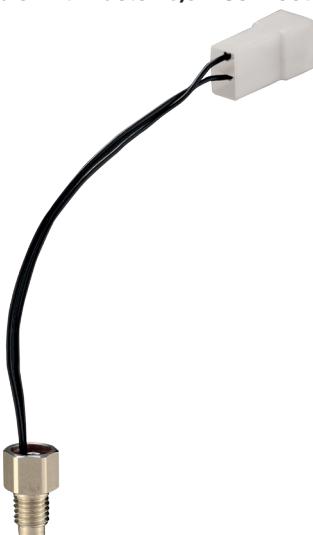
AMP类型SS 1,5连接器的电缆
Cable with Connector type AMP SS 1,5



M8连接器的电缆
Cable with Connector type M8



快速端子 6,3 连接器的电缆
Cable with Faston 6,3 F Connector

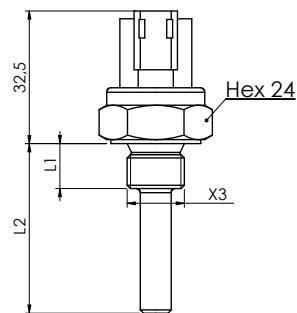


电缆的类型、长度和连接根据客户要求定制。- Type of wiring, length and connection on request

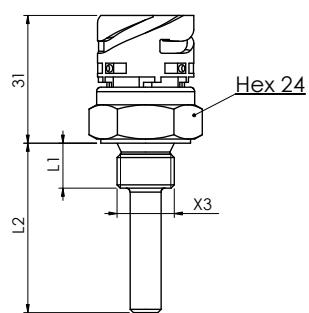
580型号的集成连接器示例

Integrated connectors examples mod. 580

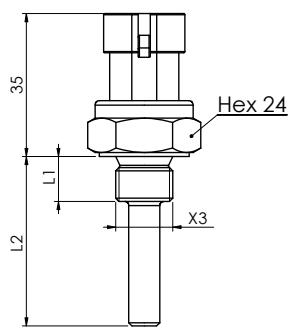
Deutsch DT 04-2P连接器
Connector Deutsch DT 04-2P



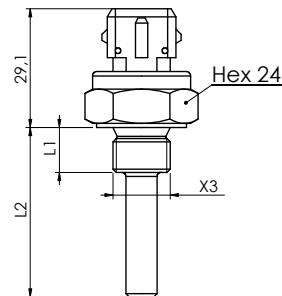
DIN72585卡口
Bajonet connector DIN72585



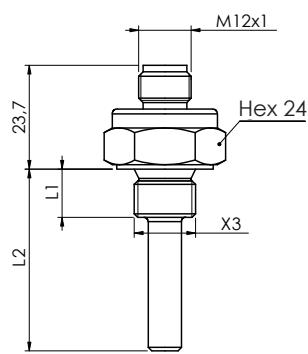
AMP类型 Superseal 1.5 2 路连接器
Connector type AMP Superseal 1.5 2 way



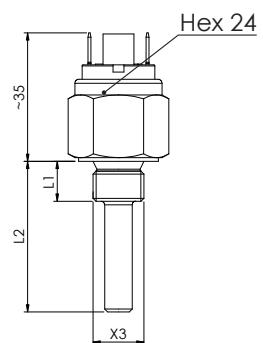
AMP类型 Junior Power Timer（电源定时器）连接器
Connector Type AMP Junior Power Timer



M12x1类型连接器
Connector type M12x1

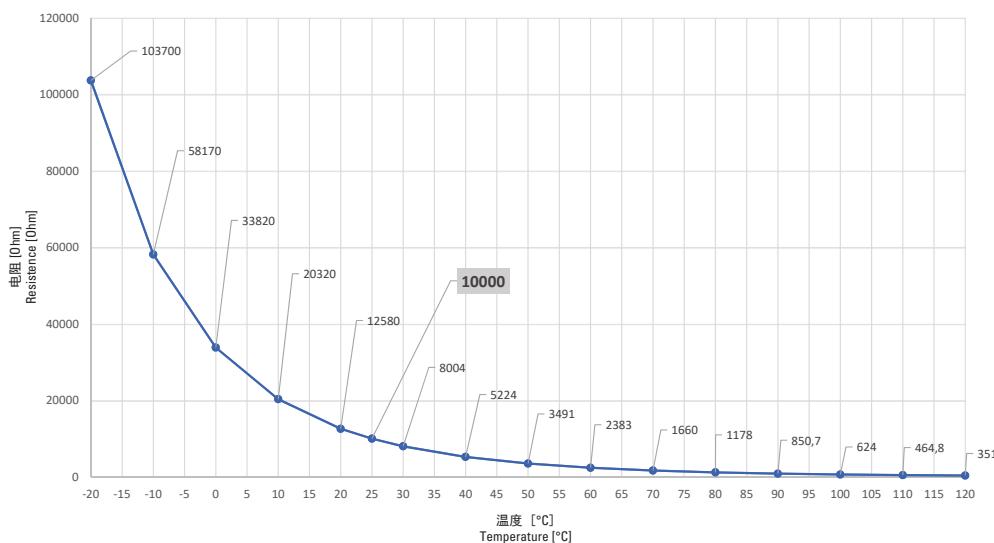


带Faston 6,3连接器
Faston 6,3 Connection





NTC 10Kohm $B_{25/85}=4100K$ 曲线示例
Example of curve NTC 10Kohm $B_{25/85}=4100K$



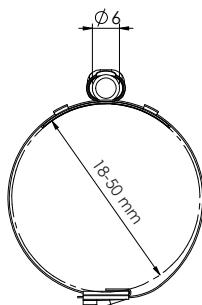
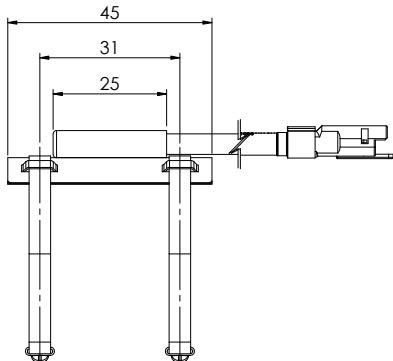
热敏电阻	NTC - PTC - PT 100 - PT 1000
电气连接	PVC电线 (可根据要求订制)
热敏电阻罩	铁丝网
套管	黄铜 (可要求不锈钢)
固定	NBR盖Ø21 mm
工作温度	-20 / +120°C (可根据要求订制)
防护等级	IP67

Thermistor	NTC - PTC - PT 100 - PT 1000
Electrical connection	PVC cable (others on request)
Thermistor Coat	wire mesh
Case	brass (on request stainless steel)
Fixing	cap in NBR Ø 21 mm
Working temperature	-20 / +120°C (others on request)
Protection degree	IP67

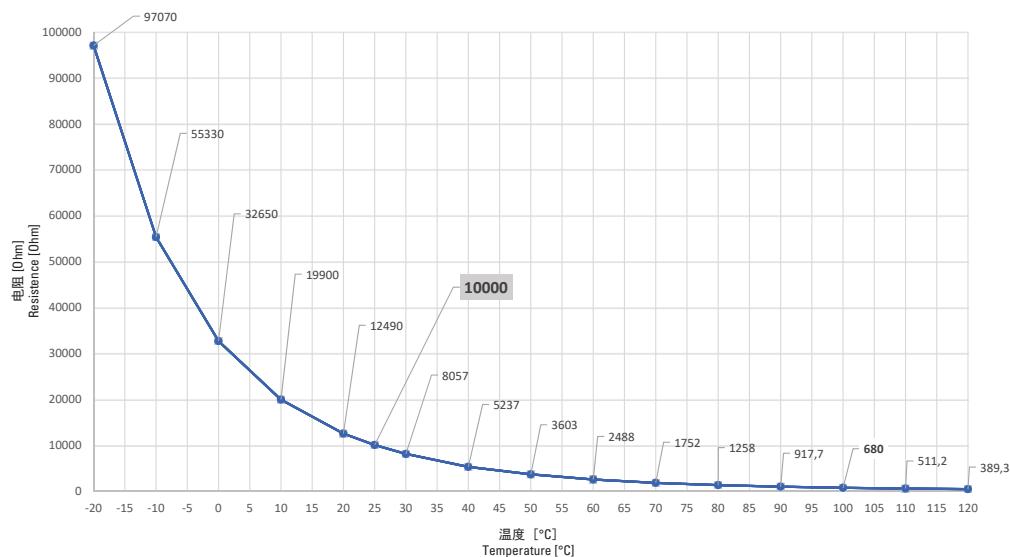
请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

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NTC 10Kohm $B_{25/100}=3988K$ 曲线示例
Example of curve NTC 10Kohm $B_{25/100}=3988K$



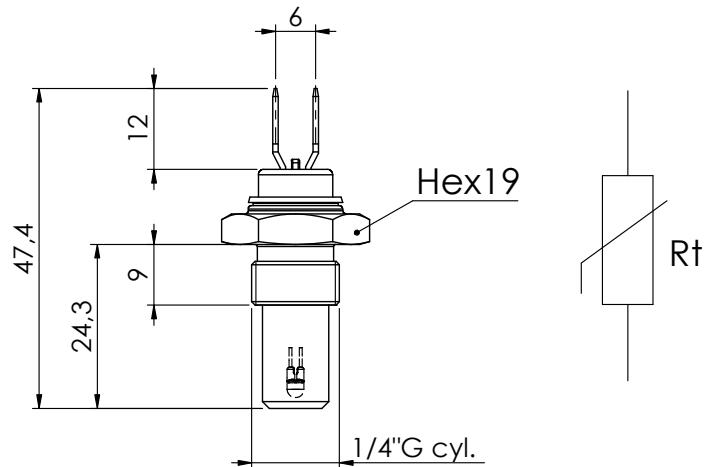
热敏电阻	NTC - PTC - PT 100 - PT 1000
电气连接	PVC电线（可要求其他）
热敏电阻罩	铜
套管	铜
工作温度	-20 / +120°C (可根据要求订制)
防护等级	IP65
固定	自锁式不锈钢扎带

Thermistor	NTC - PTC - PT 100 - PT 1000
Electrical connection	PVC cable (others on request)
Thermistor Coat	copper
Case	copper
Working temperature	-20 / +120°C (others on request)
Protection degree	IP65
Fixing	Self-locking stainless ties

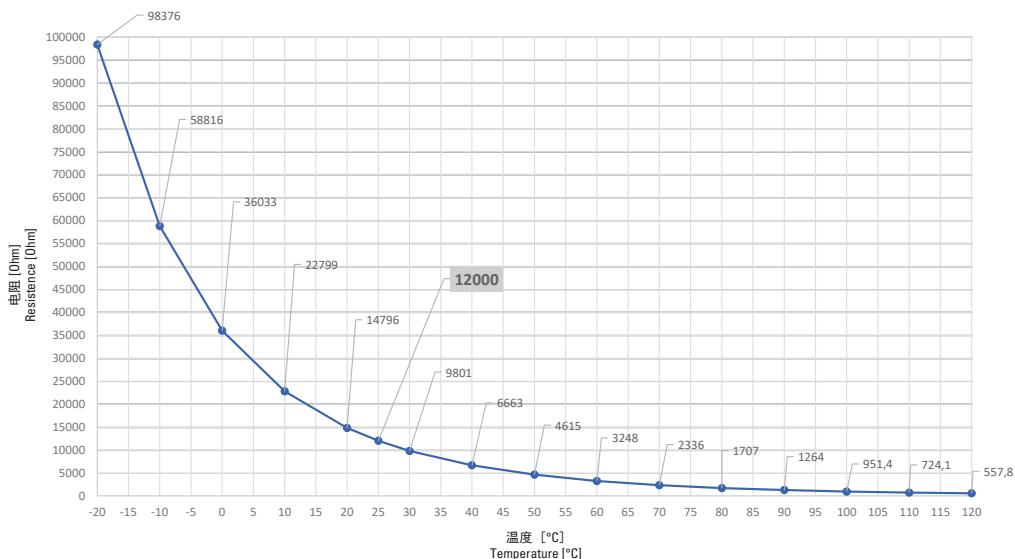
请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

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NTC 10Kohm $B_{25/100}=3760K$ 曲线示例
Example of curve NTC 10Kohm $B_{25/100}=3760K$



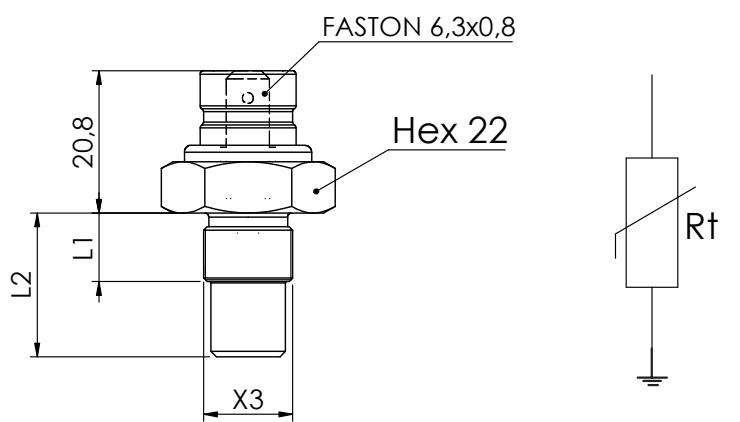
热敏电阻	NTC 12K a 25°C (可根据要求订制)
恒量 β	(25 - 85°C) 3760 ± 1%
电气连接	faston 6,3x0,8
套管	AISI 316L
工作温度	-55 +150°C
防护等级	IP65

Thermistor	NTC 12K at 25 ° C (others on request)
β constant	(25 - 85°C) 3760 ± 1%
Electrical Connection	faston 6,3x0,8
Case	AISI 316L
Working temperature	-55 +150°C
Protection degree	IP65

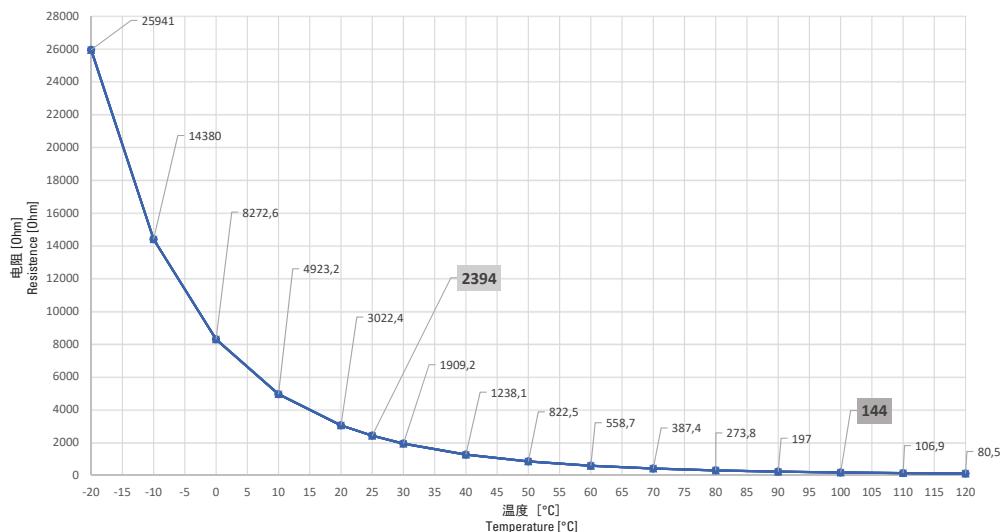
请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

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NTC2394ohm 25°C e 144ohm 100°C $B_{25/100}=4170K$ 曲线示例
Example of curve NTC2394ohm 25°C and 144ohm 100°C $B_{25/100}=4170K$



热敏电阻	NTC - 560Ω - 750Ω - 2K - 2.394K - 10K (可根据要求订制)
电气连接	Faston 6,3
套管	黄铜
螺纹(X)和L值	G 3/8" - M14X1,5 - M16X1,5 (可根据要求其他)
工作温度	-40 +130°C
防护等级	IP65
工作电压	12V

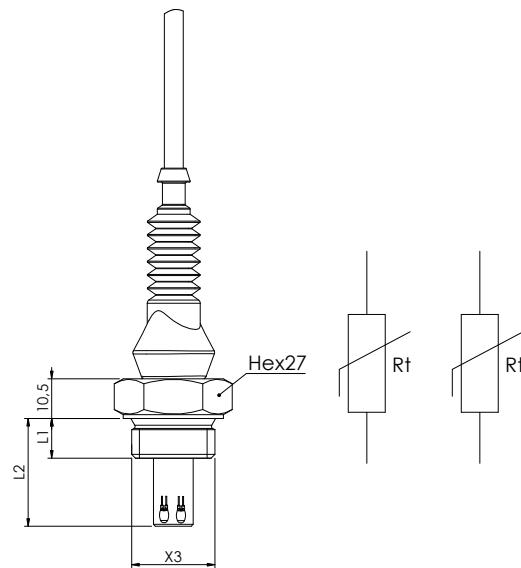
Thermistor	NTC - 560Ω - 750Ω - 2K - 2.394K - 10K (others on request)
Electrical Connection	Faston 6,3
Body	brass
Thread (X) and L	G 3/8" - M14X1,5 - M16X1,5 (others on request)
Working temperature	-40 +130°C
Protection degree	IP65
Working Voltage	12V

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

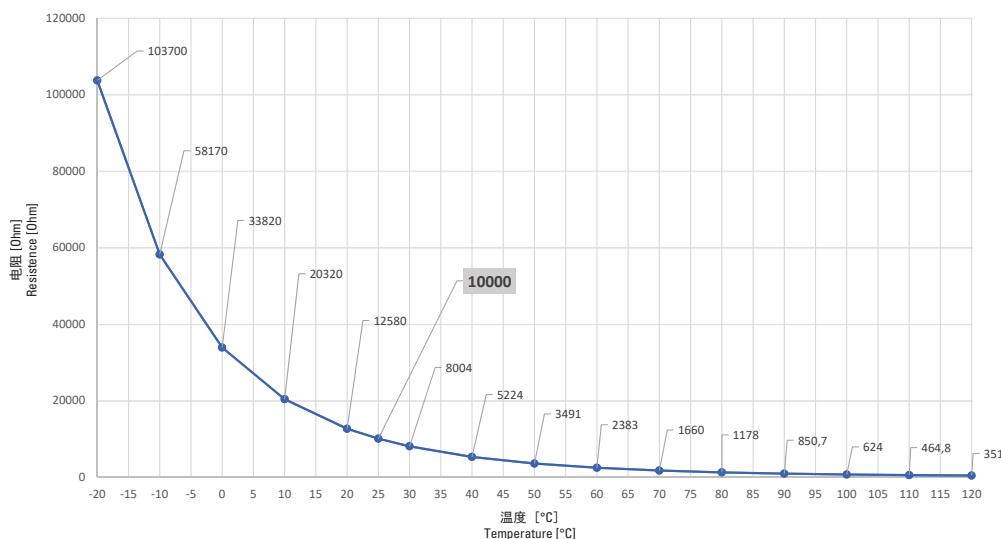
For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

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 可要求高温版本
High Temperature version available on request



NTC 10Kohm $B_{25/85}=4100K$ 曲线示例
Example of curve NTC 10Kohm $B_{25/85}=4100K$



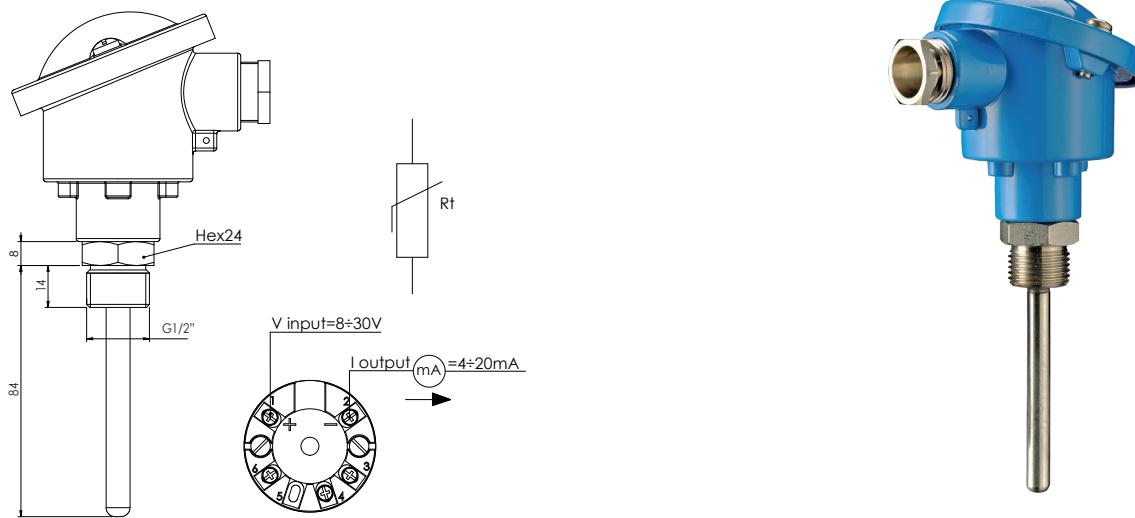
热敏电阻	NTC - PTC - PT 100 - PT 1000
电气连接	可要求其他
热敏电阻罩	树脂
套管	黄铜 (可要求不锈钢)
螺纹(X3)和L1-L2值 (可要求其他)	
防护等级	IP67

Thermistor	NTC - PTC - PT 100 - PT 1000
Electrical connection	others on request
Thermistor Coat	resin
Case	brass (on request stainless steel)
Threads (X3) and L1 - L2 (on request)	
Protection degree	IP67

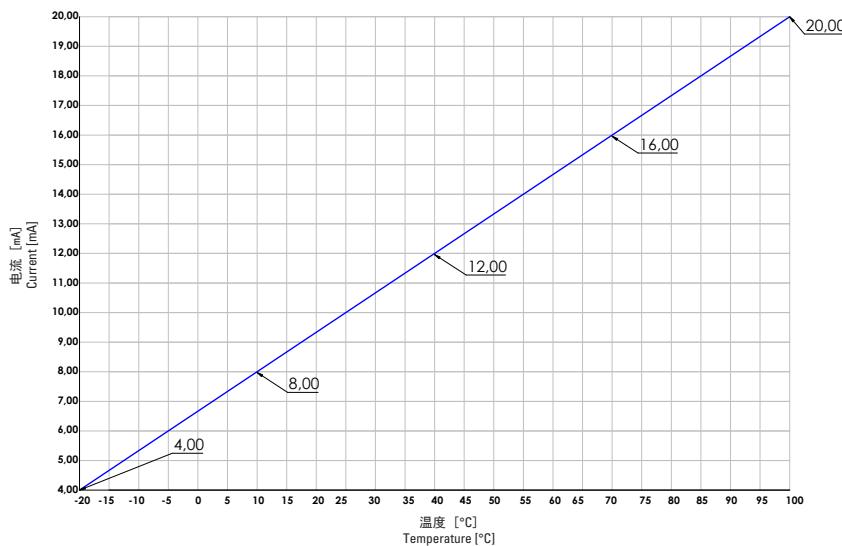
请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

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带有4÷20mA输出的PT100 - IEC 751曲线示例
Example of curve PT100 - IEC 751 with 4÷20mA output



使用	工业应用
输出信号	4-20 mA模拟
电源电压	8-30V
套管材料	AISI 316
工作温度	-20 / +100 °C
防护等级	IP65
电气连接	铝制DIN B

Use	Industrial applications
Output signal	analogic 4-20mA
Supply voltage	8-30V
Case material	AISI 316
Working temperature	-20 / +100 °C
Protection degree	IP65
Electrical connection	DIN B in aluminum

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

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SCD 4.0 - 传感器配置设备

SCD 4.0接口（传感器配置设备）允许用户直接对四种类型的传感器进行编程。除了4-20 mA模拟输出外，还可以设置2个数字信号来设置压力、温度和液位的阈值。

SCD 4.0 interface (Sensor Configurator Device) which allows the user to directly program four types of sensors. In addition to the analogue 4-20 mA output, 2 digital signals can be set for setting the pressure, temperature and level thresholds.



- 编程单元允许您读取和修改传感器的配置：

- ESL液位传感器
- EST / EST2温度传感器
- 电子差压变送器980
(4-20 mA输出) 和983 (带指示灯)。
- 无需额外的24V电源 (仅USB电缆)
- 数字输出状态显示Led灯
- 免费接口软件“SCD.EXE” (用于Windows®操作系统，可从Euroswitch.it门户的保留区下载)：

- 选择和设置数字输出
- 开/关状态，迟滞和延迟时间
- 模拟输出曲线管理 4-20 mA
- 抑制温度设定
- 过程参数和模拟输出监控
- 管理“配方”以快速复制设置

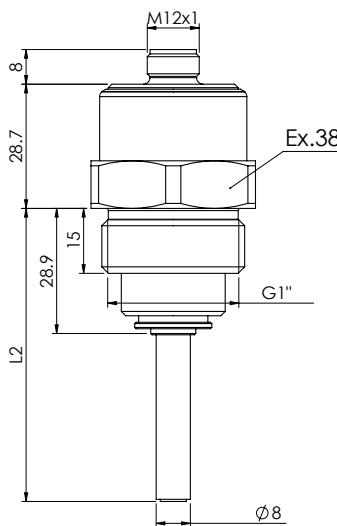
- 工作温度 (-5 / + 45°C)
- 储存温度 (-25 / + 50°C)
- 防护等级IP20
- 套件重量270克
- ABS“外壳”尺寸 LxHxP 112x62x32mm
- 附件包含3个连接电缆：USB-A / USB-B-D SUB 9 / M12x1
5个PIN (用于ESL, EST, 980型号) - 适配器M12 / M12 (用于983型号)

- *The programming unit is used to read and change the sensor configuration:*

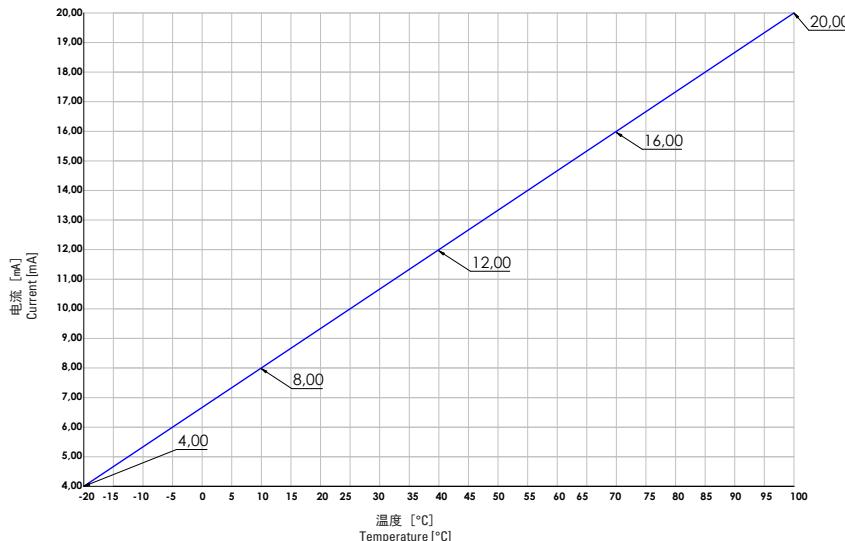
- *ESL level sensor*
- *EST / EST2 temperature sensor*
- *Electronic differential pressure transmitter models 980 (4-20 mA output) and 983 (light signal).*
- *No need for additional 24V power supply (USB cable only)*
- *LED light for displaying the status of digital outputs*
- *SCD.EXE free interface software (for Windows®, downloadable from the reserved area of www.euroswitch.it website):*

- *selection and setting of digital outputs*
- *ON/OFF, hysteresis and delay time*
- *management of the 4-20 mA analogue output curve*
- *inhibition temperature setting*
- *process parameter and analogue output monitoring*
- *“recipe” processing for quick duplication of settings*

- *Operating temperature (-5°C to +45°C)*
- *Storage temperature (-25°C to +50°C)*
- *Protection degree IP20*
- *Kit weight 270 g*
- *Dimensions of ABS crate 112x62x32mm WxHxD*
- *Accessories included: 3 connecting cables USB-A/USB-B-D SUB 9 / M12x1, 5 pins (for models. ESL, EST and 980) - M12/M12 adapter for model 983.*



带有4÷20mA输出的PT100 - IEC 751曲线示例
Example of curve PT100 - IEC 751 with 4÷20mA output



PIN-OUT		电气规格	ELECTRICAL SPECIFICATIONS
PIN1	24V±10%	24V±10%	24V±10%
PIN2	4÷20mA 模拟输出	Analogue Output 4÷20mA	Analogue Output 4÷20mA
PIN3	数字输出1: PNP 可编程 NO/NC 最高负荷 0.2 A	Digital Output 1 : PNP programmable NO/NC Max Load 0.2 A	Digital Output 1 : PNP programmable NO/NC Max Load 0.2 A
PIN4	数字输出2: PNP可编程NA/NC 最高负荷 0.2 A	Digital Output 2 : PNP programmable NO/NC Max Load 0.2 A	Digital Output 2 : PNP programmable NO/NC Max Load 0.2 A
PIN5	0V - GND	0V - GND	0V - GND
可以在Euroswitch或通过SCD编程器，对PIN 3和4的输出值以及相关迟滞进行编程（请参见第32页）。 PIN3 and PIN4 outputs, with the associated hysteresis values, are programmable at factory or by programmer SCD (see page 32).			

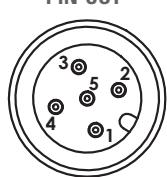
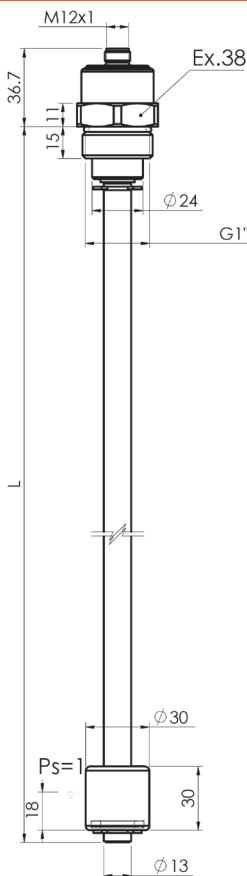
使用	工业应用
输出信号	4-20 mA模拟
电源电压	8-30V
极性换向保护	
套管	AISI 316
工作温度	-20 / + 100 ° C
防护等级	IP65 / IP67
电气连接	M12
最大拧紧扭矩	50 Nm
长度 L2 mm:	85 - 100 - 150 - 200 - 250 - 300 - 350

EMC : EN 61326-1:2013 - EN61326 2-3:2013

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		电气规格	ELECTRICAL SPECIFICATIONS
PIN1	24V±10%	24V±10%	
PIN2	4-20mA 模拟输出	Analogue Output 4-20mA	
PIN3	数字输出1: PNP可编程NO / NC 最大负载0.2 A 液位/温度 延迟时间 (以秒为单位)	Digital Output 1: PNP programmable NO/NC Max Load 0.2 A Level / Temperature Delay time in seconds	
PIN4	数字输出2: PNP可编程NO / NC 最大负载0.2 A 液位/温度 延迟时间 (以秒为单位)	Digital Output 2: PNP programmable NO/NC Max Load 0.2 A Level / Temperature Delay time in seconds	
PIN5	0V - GND	0V - GND	
可以在Euroswitch或通过SCD编程器，对PIN 3和4的输出值以及相关迟滞进行编程（请参见第32页）。			
<i>PIN3 and PIN4 outputs, with the associated hysteresis values, are programmable at factory or by programmer SCD (see page 32).</i>			

使用流体	工业应用
输出信号	4-20 mA模拟
电源电压	24 V +/- 10%
极性换向保护	
机体 / 杆	AISI 316
浮球	NBR
O环	NBR
工作温度	-25 / +95 °C
防护等级	IP65 / IP67
电气连接	M12
最大拧紧扭矩	50 Nm
液体比重	> 0,6
长度	(可根据要求提供) max 2000 mm

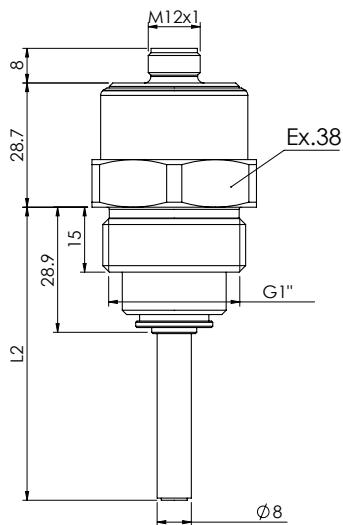
EMC : EN 61326-1:2013 - EN61326 2-3:2013

Use fluids	Industrial applications
Temperature output signal	analogic 4-20mA (+/- 1°C)
Supply voltage	24 V +/- 10%
Reverse polarity protection	
Case / Stem	AISI 316
Float	NBR
O-Ring	NBR
Working temperature	-25 / +95 °C
Protection degree	IP65 / IP67
Electrical connection	M12
Max Torque	50 Nm
Liquid specific weight	> 0,6
Length	(on request) max 2000 mm

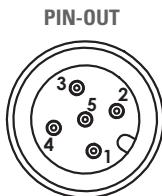
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 **IO-Link**



		电气规格	ELECTRICAL SPECIFICATIONS
PIN1	1V PLUS	1V PLUS	
PIN2	未连接	Floating	
PIN3	GND	GND	
PIN4	CQ	CQ	
PIN5	未连接	Floating	

使用	工业应用
流体	油、水性润滑冷却剂、水、柴油
输出信号	 IO-Link
电源电压	24±10%
极性换向保护	
套管	AISI 316
工作温度	-25 / +95° C
防护等级	IP65 / IP67
电气连接	M12
最大拧紧扭矩	50 Nm
长度 L2 mm:	85 - 100 - 150 - 200 - 250 - 300 - 350

EMC : EN 61326-1:2013 - EN61326 2-3:2013

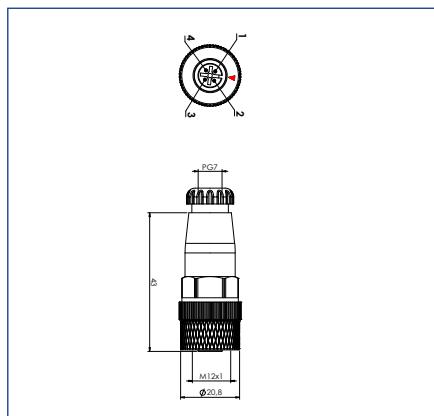
Use	Industrial applications
Fluids	Oils, water based coolants, water, diesel
Output signal	 IO-Link
Supply voltage	24±10%
Reverse polarity protection	
Case	AISI 316
Working temperature	-25 / +95° C
Protection degree	IP65 / IP67
Electrical connection	M12
Max Torque	50 Nm
Lenghts L2 mm:	85 - 100 - 150 - 200 - 250 - 300 - 350

请参阅2018年版Euroswitch的《温度传感器》第10 - 12页，以了解正确的使用方法。

For a correct use please refer to page 10-12 in the "Temperature sensors" Euroswitch catalogue, edition 18-01-2.

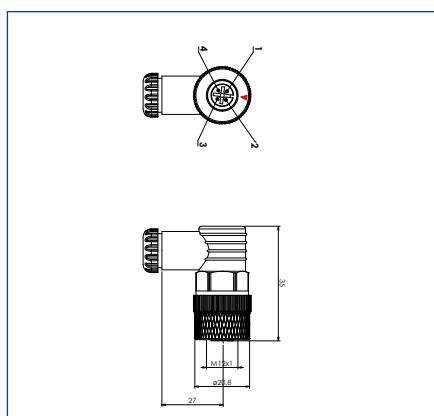
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配件 - Accessories



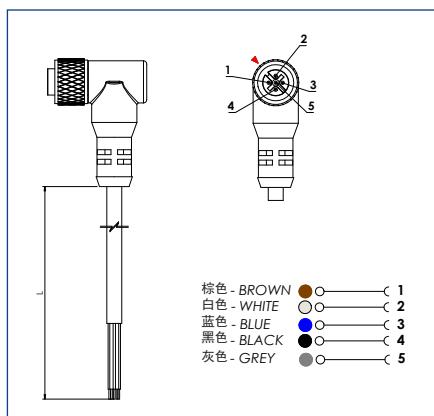
编码 CNN004-006
M12连接器需要接线
M12 connector to be wired

IEC 61076-2-101



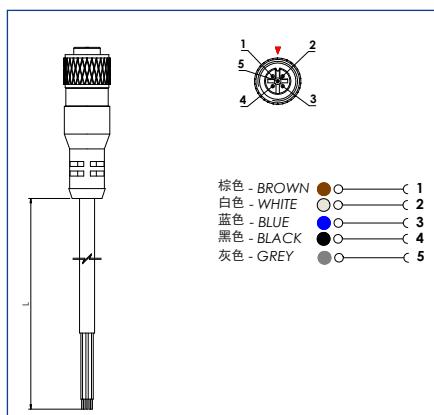
编码 CNN004-007
M12连接器需要90°接线
M12 connector to be wired angled 90°

IEC 61076-2-101



编码 CBL200-002
2 m电缆，带M12 90°连接器
2 mt cable with connector M12 angled 90°

IEC 61076-2-101



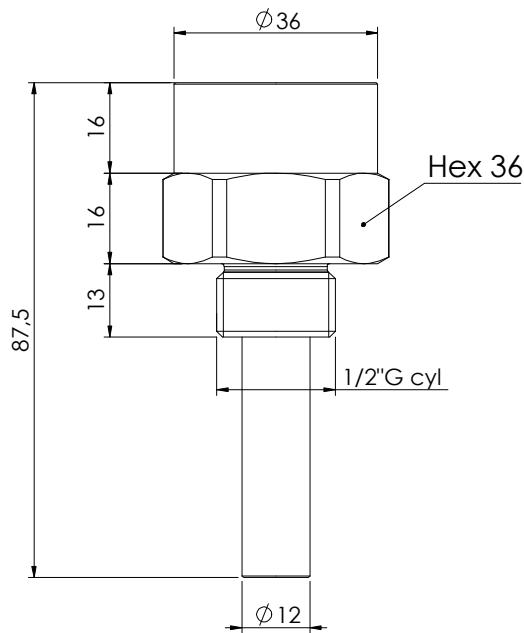
编码 CBL200-001
2 m电缆，带M12连接器
2 mt cable with connector M12

IEC 61076-2-101

有任何技术和应用需求，请联系我们的技术部 *For technical and application details contact our technical office.*

传感器配件温度套管

Thermowell for temperature sensors



- 连接从 G 1” 到 G 1/2”的传感器
- 可以在卸下温度传感器的同时，避免液体泄漏
- 耐压力
- AISI 316防侵蚀不锈钢材质

- Process connection adapter from G 1" to G 1/2"
- It allows to remove the temperature sensor avoiding fluid leaks
- High pressure rating
- AISI 316 Protection against aggressive media

笔记 Notes



EUROSWITCH
excellence in sensors

笔记
Notes



EUROSWITCH
excellence in sensors

the group's strengths

集团实力

MONT.EL 集团专业从事布线系统、电子设备和传感器的设计和制造。这是一个整合外部资源的公司网络，能够提供联合工程设计或根据客户所提供图纸设计的完整产品。我们致力于实现高品质、高效率、精准度和可靠性的原则。MONT.EL集团的网络系统依托于六家公司的职业精神、多年经验和专业能力！其中有四家公司位于意大利境内：分别是MONT.EL（布线系统），INTEA（电子传动与控制设备的设计和制造），EUROSWITCH（液位传感器、压力传感器、温度传感器和旋转传感器），AME（电气设备）；两家位于罗马尼亚境内：SIRE（布线系统、机电组件的生产装配）和TECHTRON（电子设备）。



The MONT.EL Group specialises in the design and manufacture of wiring systems, and electric and electronic equipment and sensors. It is a fully integrated network of companies dealing with advanced outsourcing that can offer a complete product, which is co-engineered or made to customer drawing, and features superior quality, efficiency, accuracy and maximum reliability.

The MONT.EL Group relies on the professional skill, know-how and expertise of the six member companies. Four are based in Italy - MONT.EL (wiring systems), INTEA (design and development of electronic drive and control equipment), EUROS WITCH (level, pressure, temperature and rotation sensors), and AME (electrical equipment) and two in Romania - SIRE (wiring systems and electro-mechanical assemblies) and TECHTRON (electronic equipment).



布线系统电子设备
electric and electronic equipment



液位、压力、温度传感器
level, pressure, temperature sensors



应用电子技术
applied electronic technologies



电气设备
electrical equipment



布线及装配
wirings, assembly



电子设备
electronic equipments



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