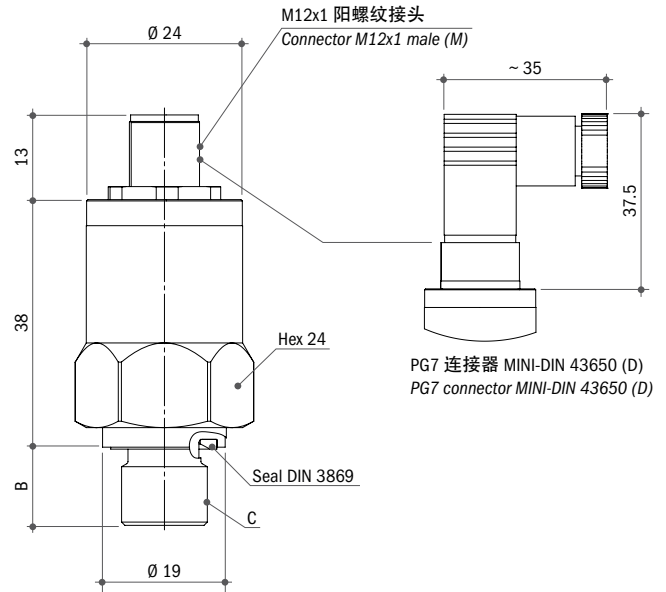




电源电压	24Vdc; (10÷35Vdc, 电流 ≤ 30mA 输出电流); (12÷35Vdc 电流 ≤ 8mA 输出电压)	Supply voltage	24Vdc; (10÷35Vdc, I ≤ 30mA output I); (12÷35Vdc I ≤ 8mA output V)
电流信号输出	4-20mA (2引脚); 电流限制: 30mA	Output signal current	4-20mA (2pins); current limitation: 30mA
电压信号输出	0÷10V (3引脚); 最小负载 3 KΩ	Output signal voltage	0÷10V (3pins); minimum load 3 KΩ
接线保护	防止电源反极性和输出信号电源短路	Wiring protection	Against reverse polarity on power supply and short-circuit on output signal
响应时间	≤ 5ms	Response time	≤ 5ms
技术	压阻式	Technology	Piezoresistive
稳定性	≤ ±0.3% F.S./年 @ 25°C	Stability	≤ ±0.3% F.S./year @ 25°C
精度	≤ 1% F.S. @ 25°C	Accuracy	≤ 1% F.S. @ 25°C
线性/滞后性/重复性	≤ ±0.4% F.S.	Linearity/Hysteresis/Repeatability	≤ ±0.4% F.S.
工作温度	-25°C...+100°C	Operating temperature	-25°C to 100°C
流体温度	-25°C...+125°C	Fluid temperature	-25°C to 125°C
储存温度	-40°C...+135°C	Storage temperature	-40°C to 135°C
接液部件材料	本体: AISI 316 不锈钢 密封件: 聚氨酯、NBR	Wetted parts material	Body: AISI 316 stainless steel Seals: polyurethane, NBR
传感器材料	陶瓷氧化铝 96%	Sensor material	Ceramic Al ₂ O ₃ 96%
流体相容性	油、水、水-乙二醇和其他流体 请联系我们技术部门	Fluid compatibility	Oil, water, water-glycol, and other fluid please contact our technical office
拧紧扭矩	20 Nm	Tightening torque	20 Nm
电气连接和防护等级 (EN 60529)	M12 1x4 引脚阳螺纹接头 - IP67 Mini-DIN 43650 连接器 - IP65	Electrical connection and protection degree (EN 60529)	M12 1x4 pins male connector - IP67 Mini-DIN 43650 connector - IP65
电磁兼容性 (EMC)	2014/30/UE 指令和 EN 61326-1 (2013) 标准	Electromagnetic comp. (EMC)	2014/30/UE Directive and EN 61326-1 (2013) standard
符合RoHs标准	2011/65/EU (ROHs) 和 2012/19/EU 指令 (WEEE)	RoHs conformity	2011/65/EU (ROHs) and 2012/19/EU Directives (WEEE)

安装和调试 / Installation and commissioning

1. 安装: PTE传感器必须尽可能地靠近被测量的压力点安装, 注意流体流向不湍急。
 2. 调试: 根据电气连接图进行接线。在连接和断开传感器连接器之前, 请断开电源。
 3. 处置: 产品必须按照2011/65/EU (ROHs) 和2012/19/EU (WEEE) 指令, 作为电气/电子废物单独处置。
1. Installation: the PTE transducer must be installed as near as possible to the point where the pressure is measured, taking care that the oil flow is not turbulent.
 2. Commissioning: cable as shown in the electric scheme. Switch-off the power supply before connecting and disconnecting the transducer connector.
 3. Disposal: the product must be disposed separately as electric / electronic waste, following 2011/65/EU (ROHs) and 2012/19/EU (WEEE) directives.

如何订购 / HOW TO ORDER

PTE	100	G	A	V	W	M	R14	SG
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型号 / Model
PTE

压力 / Pressure			
/	范围 / Range	过载 / Overload	爆破 / Burst
2	0 ÷ 2	4	6
5	0 ÷ 5	10	12
10	0 ÷ 10	15	20
20	0 ÷ 20	35	50
50	0 ÷ 50	100	120
100	0 ÷ 100	150	200
200	0 ÷ 200	300	400
250	0 ÷ 250	350	500
400	0 ÷ 400	500	650

压力 / Pressure	
G	相对 / Relative
A	绝对的 / Absolute*

* 仅适用于5-10巴 / Only for 5-10 bar

输出 / Output	
V	0 - 10 V
I	4 - 20 mA

精度 / Accuracy	
A	≤ 1 % F.S.

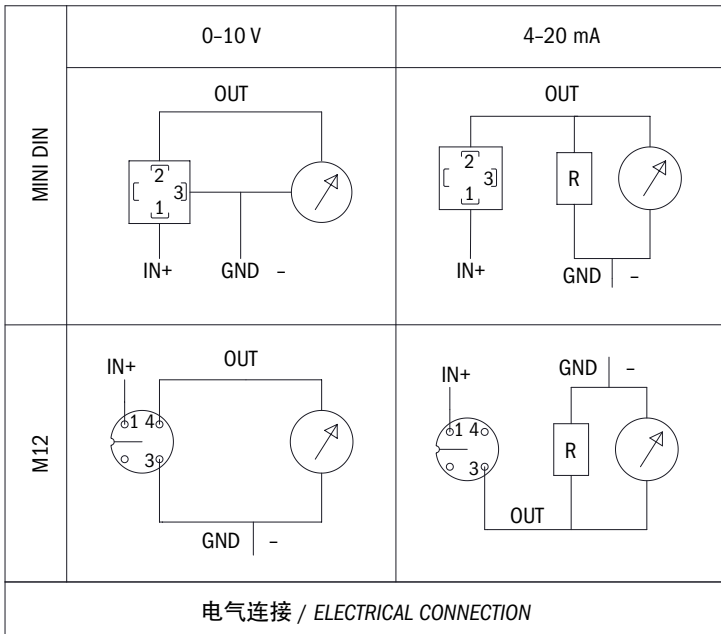
选项 / Options	
SG	脱脂 / Degreased
TG	测试气体 / Tested gas
SM	阻尼器 / Damper
-	无选项 / No options

C	螺纹 / Thread	B
R14	G 1/4" BSPP	12
R18	G 1/8" BSPP	10

电气连接 / Electric connection	
M	M12 阳接头 / Male
D	Mini DIN 43650

本体 / Body	
W	316不锈钢 Stainless Steel 316

电气连接 / ELECTRICAL CONNECTIONS

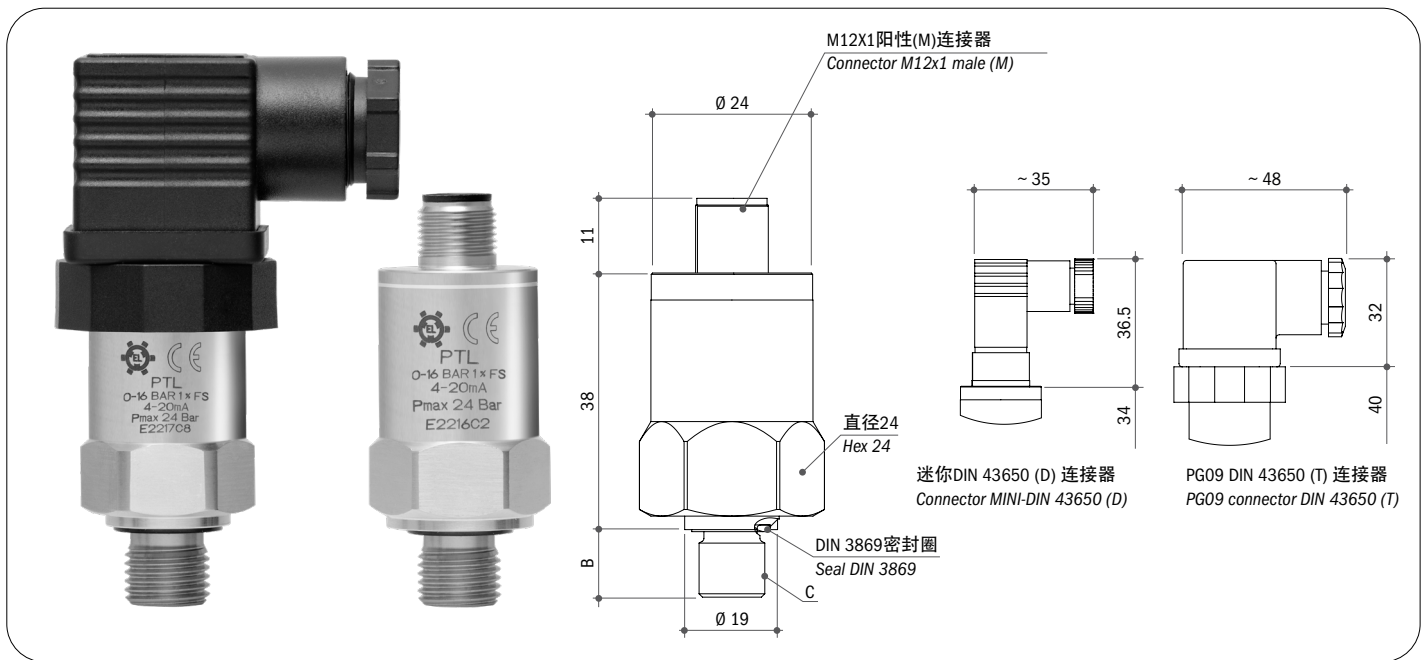


最大的电阻R分流(Ω)来自:
The max. resistance R shunt (Ω) is given from:

$$R \text{ 分流 } \Omega = \frac{V \text{ 电源 / supply } - 7.5}{0.03}$$

Elettrotec保留未经事先通知更改产品技术数据或暂停生产的权利。该压力控制器触点受到强烈冲击或震动时可能会被损坏。用户有责任对我们的产品是否适合特定应用进行测试,例如,材料的兼容性测试。仅在现场试验中得到证实的使用才是适当的。该样本中的技术信息基于产品开发过程中的测试和经验值的积累,他们可能并不适用于所有情况。

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电源电压	24Vdc; (10÷30Vdc) (I ≤ 24mA)	Supply voltage	24Vdc; (10÷30Vdc) (I ≤ 24mA)
电流信号输出	4-20mA (2引脚)	Output signal current	4-20mA (2pins)
电压信号输出	0÷10V (3引脚); 最小负载 1kΩ	Output signal voltage	0÷10V (3pins); minimum load 1kΩ
接线保护	防止电源极性反转和输出信号短路	Wiring protection	Against reverse polarity on power supply and short-circuit on output signal
响应时间	≤ 10ms	Response time	≤ 10ms
技术	压阻式	Technology	Piezoresistive
稳定性	≤ ±0.5% F.S./年 @ 25°C	Stability	≤ ±0.5% F.S./year @ 25°C
准确度	≤ 1% F.S. @ 25°C	Accuracy	≤ 1% F.S. @ 25°C
线性/滞后/可重复性	≤ ±0.7% F.S.	Linearity/Hysteresis/Repeatability	≤ ±0.7% F.S.
工作温度	-25°C至+100°C	Operating temperature	-25°C to +100°C
流体温度	-25°C至+125°C	Fluid temperature	-25°C to +125°C
存储温度	-40°C至+135°C	Storage temperature	-40°C to +135°C
浸润部件材料	本体: AISI 316 不锈钢 密封件: 丁腈橡胶	Wetted parts material	Body: AISI 316 stainless steel Seals: NBR
传感器材料	陶瓷 Al2O3 96%	Sensor material	Ceramic Al2O3 96%
流体兼容性	油, 水, 水-乙二醇, 用于其他液体 请联系我们技术部门	Fluid compatibility	Oil, water, water-glycol, and other fluid please contact our technical office
螺纹连接	G 1/4" 平行	Process thread	G 1/4" parallel
拧紧扭矩	20 Nm	Tightening torque	20 Nm
电气连接和保护等级 (EN 60529)	IP65	Electrical connection and protection degree (EN 60529)	IP65
电磁兼容性 (EMC)	2014/30/EU指令和产品标准 EN 55032:2015, EN55035:2020	Electromagnetic comp. (EMC)	2014/30/UE Directive and EN 55032:2015, EN55035:2020
符合RoHs标准	2011/65/EU (ROHs) 和2012/19/EU指令(WEEE)	RoHs conformity	2011/65/EU (ROHs) and 2012/19/EU Directives (WEEE)

安装和调试 / Installation and commissioning

1. 安装: PTL 传感器应尽可能安装在靠近压力测量点的地方, 注意流体流向不湍急。
 2. 调试: 根据电气连接图进行布线。在连接和断开换能器连接器之前, 请关闭电源。
 3. 处置: 该产品必须按照2011/65/EU (ROHs) 和2012/19/EU (WEEE) 指令, 作为电气/电子废物单独处置。
1. Installation: the PTL transducer must be installed as near as possible to the point where the pressure is measured, taking care that the oil flow is not turbulent.
 2. Commissioning: cable as shown in the electric scheme. Switch-off the power supply before connecting and disconnecting the transducer connector.
 3. Disposal: the product must be disposed separately as electric / electronic waste, following 2011/65/EU (ROHs) and 2012/19/EU (WEEE) directives.

如何订购 / HOW TO ORDER

PTL	100	G	A	V	W	M	R14	SM
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型号 / Model
PTL

压力 / Pressure			
/	范围 / Range	过载 / Overload	爆破 / Burst
2	0 ÷ 2	3	5
5	0 ÷ 5	8	12
6	0 ÷ 6	9	15
10	0 ÷ 10	15	25
16	0 ÷ 16	24	40
20	0 ÷ 20	30	70
50	0 ÷ 50	75	125
100	0 ÷ 100	150	250
200	0 ÷ 200	300	500

压力 / Pressure	
G	相对 / Relative

选项 / Options	
SM	阻尼器 / Damper

C	螺纹 / Thread	B
R14	G 1/4" BSPP	12

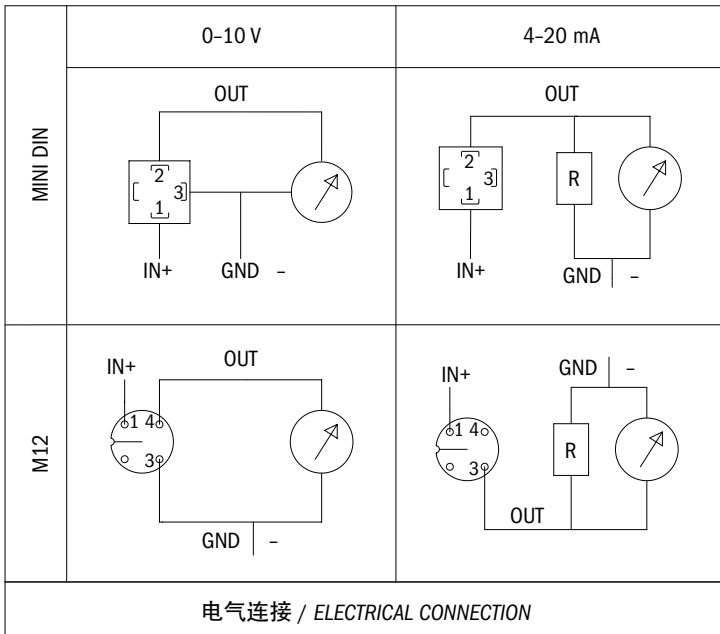
电气连接 / Electric connection		
M	M12 阳接头 / Male	H=38.2 mm
D	Mini DIN 43650 PG7	H=34 mm
T	DIN 43650 PG9	H=40.2 mm

本体 / Body	
W	316不锈钢 Stainless Steel 316

输出 / Output	
V	0 - 10V
I	4 - 20 mA

精度 / Accuracy	
A	<1% F.S.

电气连接 / ELECTRICAL CONNECTIONS

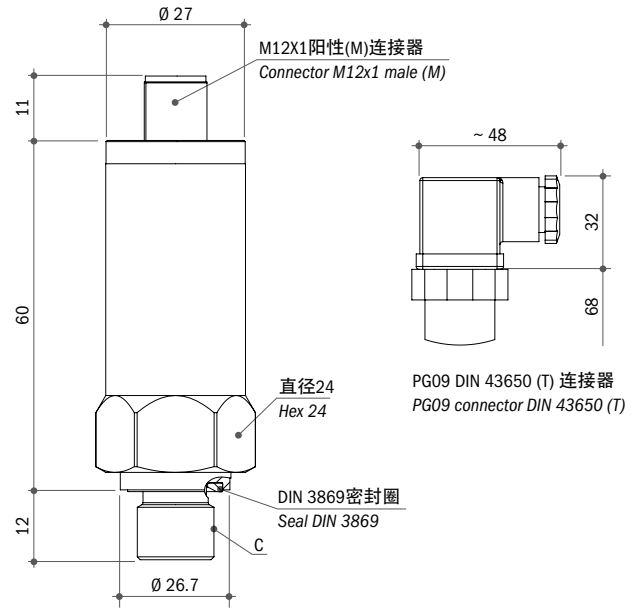


最大的电阻R分流(Ω)来自:
The max. resistance R shunt (Ω) is given from:

$$R \text{ 分流 } \Omega = \frac{V \text{ 电源 / supply} - 7.5}{0.03}$$

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电源电压	24Vdc; (10÷30Vdc)	Supply voltage	24Vdc; (10÷30Vdc)
电流信号输出	4-20mA (2引脚) ($I \leq 20\text{mA}$)	Output signal current	4-20mA (2pins) ($I \leq 20\text{mA}$)
电压信号输出	0÷10V (3引脚); 最小负载5k Ω ($I \leq 3.5\text{mA}$)	Output signal voltage	0÷10V (3pins); minimum load 5k Ω ($I \leq 3.5\text{mA}$)
接线保护	防止电源极性反转和输出信号短路	Wiring protection	Against reverse polarity on power supply and short-circuit on output signal
响应时间	$\leq 5\text{ms}$	Response time	$\leq 5\text{ms}$
技术	压阻式	Technology	Piezoresistive
稳定性	$\leq \pm 0.25\%$ F.S./年 @ 25°C	Stability	$\leq \pm 0.25\%$ F.S./year @ 25°C
准确度	$\leq 0.5\%$ F.S. 标准 (0.1%F.S.) @ 25°C	Accuracy	$\leq 0.5\%$ F.S. standard (0.1%F.S.) @ 25°C
线性/滞后/可重复性	$\leq \pm 0.5\%$ F.S.	Linearity/Hysteresis/Repeatability	$\leq \pm 0.5\%$ F.S.
工作温度	-25°C至+100°C	Operating temperature	-25°C to +100°C
流体温度	-25°C至+125°C	Fluid temperature	-25°C to +125°C
存储温度	-40°C至+135°C	Storage temperature	-40°C to +135°C
浸润部件材料	本体: AISI 316 不锈钢 密封件: 丁腈橡胶	Wetted parts material	Body: AISI 316 stainless steel Seals: NBR
传感器材料	硅胶	Sensor material	Silicone
流体兼容性	油, 水, 水-乙二醇, 用于其他液体 请联系我们技术部门	Fluid compatibility	Oil, air, water, water-glycol; for other fluid please contact our technical office
螺纹连接	G 1/4" 平行	Process thread	G 1/4" parallel
拧紧扭矩	20 Nm	Tightening torque	20 Nm
电气连接和保护等级 (EN 60529)	IP65	Electrical connection and protection degree (EN 60529)	IP65
电磁兼容性 (EMC)	2014/30/EU指令和产品标准 EN 55032:2015. EN55035:2020	Electromagnetic comp. (EMC)	2014/30/UE Directive and EN 55032:2015, EN55035:2020
符合RoHs标准	2011/65/EU (ROHs) 和2012/19/EU指令(WEEE)	RoHs conformity	2011/65/EU (ROHs) and 2012/19/EU Directives (WEEE)

安装和调试 / Installation and commissioning

1. 安装: PTH传感器应尽可能安装在靠近压力测量点的地方, 注意流体流向不湍急。
 2. 调试: 根据电气连接图进行布线。在连接和断开换能器连接器之前, 请关闭电源。
 3. 处置: 该产品必须按照2011/65/EU (ROHs) 和2012/19/EU (WEEE) 指令, 作为电气/电子废物单独处置。
1. Installation: the PTH transducer must be installed as near as possible to the point where the pressure is measured, taking care that the oil flow is not turbulent.
 2. Commissioning: cable as shown in the electric scheme. Switch-off the power supply before connecting and disconnecting the transducer connector.
 3. Disposal: the product must be disposed separately as electric / electronic waste, following 2011/65/EU (ROHs) and 2012/19/EU (WEEE) directives.

如何订购 / HOW TO ORDER

PTH	100	G	A	V	W	M	R14	SM
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型号 / Model
PTH

压力 / Pressure			
/	范围 / Range	过载 / Overload	爆破 / Burst
1	0 ÷ 1	3	4
10	0 ÷ 10	20	30
16	0 ÷ 16	32	48
50	0 ÷ 50	100	150
100	0 ÷ 100	200	300
250	0 ÷ 250	370	500
400	0 ÷ 400	600	800
600	0 ÷ 600	900	1200
1000	0 ÷ 1000	1500	2000

压力 / Pressure	
G	相对 / Relative
A	绝对的 / Absolute*

* 仅适用于1-10巴 / Only for 1-10 bar

精度 / Accuracy	
C	<0.5% F.S.
E	<0.1% F.S.

输出 / Output	
V	0 - 10V
I	4 - 20 mA

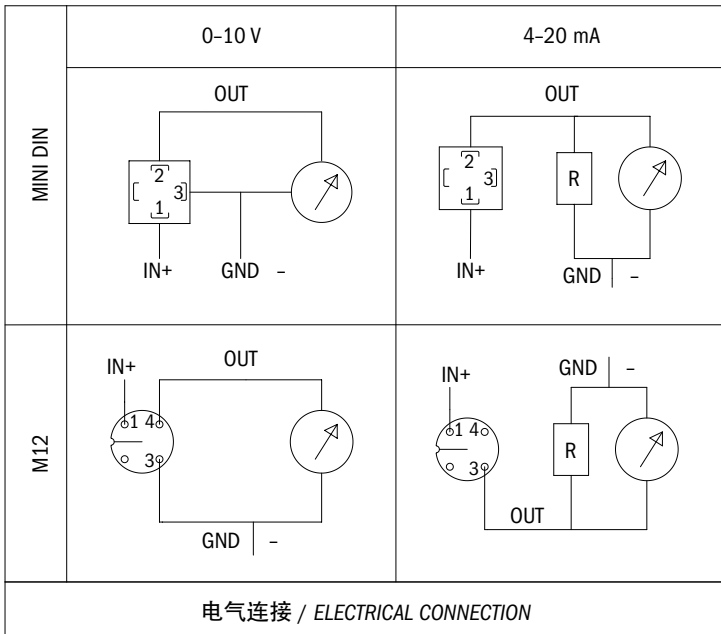
本体 / Body	
W	316不锈钢 Stainless Steel 316

选项 / Options		
SM	阻尼器 / Damper	

C	螺纹 / Thread	B
R14	G 1/4" BSPP	12

电气连接 / Electric connection		
M	M12 阳接头 / Male	H=60 mm
T	DIN 43650 PG9	H=68 mm

电气连接 / ELECTRICAL CONNECTIONS



最大的电阻R分流(Ω)来自:
The max. resistance R shunt (Ω) is given from:

$$R \text{ 分流 } \Omega = \frac{V \text{ 电源 / supply} - 7.5}{0.03}$$

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