

编码检测器 HLC2701

特点

侧接收塑料封装

TTL/LSTTL/CMOS 兼容

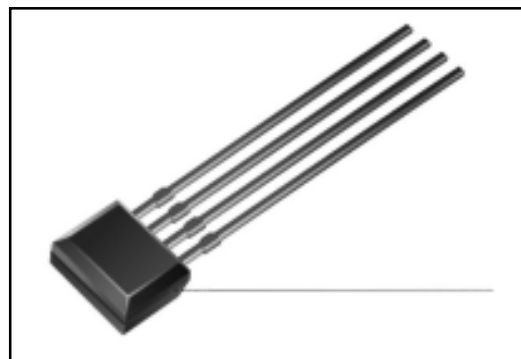
反向逻辑输出

线性或旋转编码器应用

分辨率为 0.229mm

具有灵敏度温度补偿

机械结构上和光谱上与 SEP8506 和 SEP8706LED 相匹配

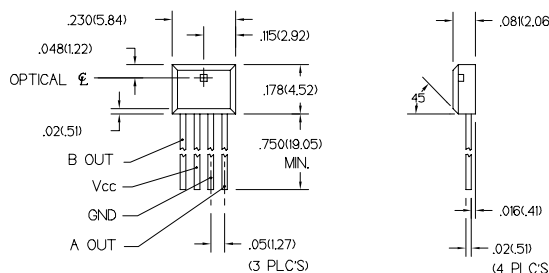


外形尺寸图, 单位为英寸(毫米)

HLC2701 专为感测机械运动的速度和方向而设计。应用包括旋转编码器或线位移编码器。特别适用于光学鼠标中的编码器。探测器为单片集成电路包括两个非常靠近的光电二极管、放大器和施密特触发器输出单元。输出为 NPN 集电极带 10KΩ 上拉电阻, 可直接驱动 TTL 负载。

探测器中具有灵敏度温度补偿电路, 来补偿由于温度变化 LED 输出功率的漂移。集成电路封装在一个模压不透光的黑色塑料壳中, 可以透射红外能量, 而阻挡可见光的透射。

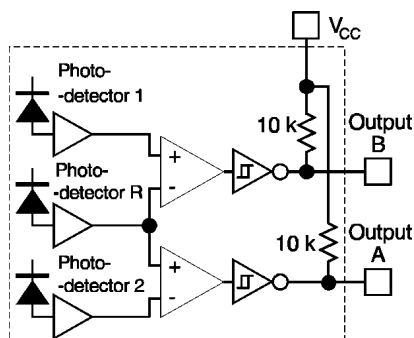
集成电路的敏感区每个宽 0.203mm, 高 0.381mm, 间隔 0.0254mm, 中心到中心的间隔为 0.203mm, 外部边缘到边缘的距离为 0.432mm。



电参数

参数	符号	最小值	典型值	最大值	单位	测试条件
供电电压	V _{CC}	4.5		5.5	V	
导通辐射阈值	E _{OT}	0.05		2.0	mW/cm ²	V _{CC} =5V
迟滞	HYST		28		%	
供电电流	I _{CC}			7.0	mA	V _{CC} =5.25V
高电平输出电压 (A 和 B)	V _{OH}	2.4			V	V _{CC} =5V, I _{OH} =0, Ee=0
低电平输出电压 (A 和 B)	V _{OL}			0.4	V	V _{CC} =5V, I _{OL} =1.6mA, Ee=2.0mW/cm ²
输出上升时间和下降	t _r , t _f		100		ns	V _{CC} =5V, R _L =1Kohm
传播延迟, 低-高, 高-低	t _{PLH} , t _{PHL}		5		μs	V _{CC} =5V, R _L =1Kohm

功能框图



公司由传感器销售部、仪表销售部、工程部和总部四个部组成。我公司是美国霍尼韦尔（HONEYWELL）公司中国区指定的专业代理商, 传感器部 2000 年成为美国 HONEYWELL 中国区指定代理商。专业销售 HONEYWELL 传感与控制部产品（Sensing and Control）我们不仅销售给客户最合适的产品同时也积极的为客户的开发工作提供帮助及解决客户在应用中所遇到的困难。为了更加方便用户，我们长期备有大量现货。传感器的应用十分广泛。通过我们几年来的努力，我们已经在 HAVE，医疗，马达控制，航空航天，财务设备，汽车仪表，阀门控制，车辆导航，气象仪器，色谱分析，水电煤气表等行业有了较好的业绩。这些都源于我们有一个优秀的团队，传感部目前有 10 多名名销售工程师，90%都是大专以上学历，且长期服务于自动化行业第一线。有着丰富的经验。我司还代理美国 ICSSENSORS, MSI 的传感器, 变送器。我部门专业从事传感器的销售, 有专业人员为您提供售后服务。HONEYWELL, MSI, ICSSENSORS, MOTOROLA 的 24PC, 26PC, SCC, SX, ASDX, XPCL, XSL, XSCL, SLP, CPC, SDX, SCX, HPX, 40PC, 4040PC, SDXL, SCXL, DCXL, DUXL, DC, PPT, MLH, ST, EC; MSP300, MSP310, MSP320, MSP400, MSP600, US300, US600; 1451 型, 1471 型, 1210A 型, 1220A 型, 1230A 型, 1240A 型, 13 型, 23 型, 33 型, 43 型, 17 型, 27 型, 37 型, 47 型, 84 型, 85 型, 154N 型, MPX 全系列系列正被广泛的应用到医疗器械, 环保, 水处理工程, HVAC, 仪器仪表, 航空航天, 自动控制系统。

产品或服务：（HONEYWELL, MSI, ICSensors, MOTOROLA）压力传感器，霍尔传感器，弱磁传感器，流量传感器，电流传感器，温度传感器，液位传感器，湿度传感器，红外传感器，齿轮传感器，触力传感器，及工业开关类产品。

主要价格优势产品：HONEYWELL 传感器，变送器；MSI, ICSensors 传感器, 变送器, MOTOROLA 传感器。

AWM40000 系列气体质量流量传感器

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AWM40000 系列放大输出气体质量流量传感器, 多个集中安装 / 0 形密封圈, 陶瓷流量管（无引气管），0-1000sccm, 塑料流量管（无引气管），0-6SLPM, 高共模压力（150psi），工作温度可至 125℃, 零点和满量程高稳定性

MLH 系列压力传感器 (Honeywell)

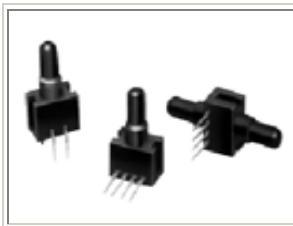
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MLH 型压力传感器结合了应用特殊集成电路（ASIC）技术中的最新技术以及证明可靠的隔离介质的金属隔膜设计。MLH 型压力传感器全部进行补偿，校准和放大，MLH 可适用于 50psi-8000psi 的压力范围。

24PC 系列差压，表压和绝压传感器 (进口)

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24PC 系列差压，表压和绝压/无放大，无补偿，2mA 恒流供电可以显著的改善灵敏度温飘，可以测量负压，正压，绝压。

40PC 系列 压力传感器

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最新经济型 40PC 产品是由 Honeywell/MicroSwitch 分部推出的最小体积放大压力传感器。完全校整和温度补偿,是霍尼韦尔压力产品中最坚固、适用温度最宽的传感器。另外, 40PC 可与很大范围的介质兼容,从干燥空气和水到冷却液和机油。40PC 提供模拟放大信号输出,传感器利用了独创的单硅片的设计,把所有温度补偿、输出零点、满量程校整、放大功能集中在一块硅片中。

26PC 系列 差压, 表压传感器

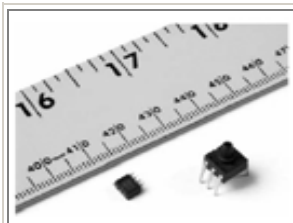
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专利的导电密封弹性连接系统消除了传统的导线粘结和带状连接,增加了介质的测量兼容性,专利的结构导致了多样化的测量孔形式,最低价格的带温度补偿和校整的小型封装压力传感器,不同的引脚可选(1X4 或 2X2),可以测量负压、正压,激光刻蚀电阻保证极好的器件一致性

HPX 系列压力传感器

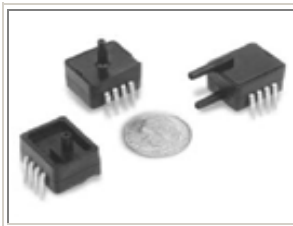
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微型封装尺寸,可供表压型和绝压型,不带补偿和校准,压力范围自 0psi 至 100psi,响应时间一般为 1mS,两种封装形式: DIP 和 SOIC (双列式封装和小型集成电路),工作温度范围宽,表面贴片和通孔安装

ASDX 压力传感器

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传感器可以用来测量绝压差压和表压,范围从 1psi (ASDX01DN) 到 100psi (ASDX100)。绝压传感器具有一个内部的真空标准,其输出电压与绝对压力成正比。差压传感器允许将压力施加在检测膜片的两边,可以用在表压和差压的测量中。

HONEYWELL 传感器型号大全

详细资料:

我公司长期提供以下型号的传感器。

开关量霍尔

103SR11A-1, 103SR12A-1, 103SR13A-1, 103SR14A-1, 103SR17A-1,
103SR18A-1, 2SS52M, 2SS52M-S, SR13C-A1, SR13D-A1, SR13F-A1, SR13R-A1,
SR15C-A3, SR16C-J6, SRC17C-J6, SR3F-A1, SR3B-A1, SR3G-A1, SR3C-A1,
SR4P2-A1, SS11, SS11T, SS111A, SS113A, SS141A, SS143A, SS149A, SS161A,
SS166A, SS41, SS411A, SS413A, SS441A, SS443A, SS449A, SS461A, SS466A,
SS51T, SS500, SS526DT。

模拟量霍尔

103SR3F-5, SS49, SS19, SS19T, SS495A, SS495A1, SS495A2, SS94A1,
SS94A1B, SS94A1E, SS94A1F, SS94A2, SS94A2C, SS94A2D, SS94B1。

内置磁铁霍尔传感器

2AV54, 1GT101DC, GTN1A111, GTN1A112, GTN1A113, GTN1A114, GTN1A115,
GTN1A116, GTN1A117, GTN1A211, GTN1A131, VX10, VX80, VX10-A1, VX80-A1,
VX10-A2, VX80-A2, VX10-A3, VX80-A3, VX10-B1, VX80-B1, VX10-C1, VX80-C1,
RPN1A112。

带放大压力传感器

142PC01D, 142PC02D, 142PC03D, 142PC05D, 142PC15D, 142PC30D, 142PC15A,
142PC30A, 142PC30G, 141PC01D, 141PC02D, 141PC03D, 141PC05D, 141PC15D,
141PC30D, 143PC01D, 143PC02D, 143PC03D, 143PC05D, 143PC15D, 143PC30D,
141PC01G, 141PC02G, 141PC05G, 142PC01G, 142PC02G, 142PC03G, 142PC05G,
142PC15G, 163PC01D36, 163PC01D48, 163PC01D75, 164PC01D76, 163PC01D37,
163PC01D76, 161PC01D36, 162PC01D36, 164PC01D36, 189PC15GM,
189PC100GM, 189PC150GM, ASCX01DN, ASCX05DN, ASCX15AN, ASCX15DN,
ASCX30AN, ASCX30DN, ASCX100AN, ASCX100DN, ASCX150DN, ASCX150AN,
ASDX015A24R, ASDX030A24R, ASDX100A24R, ASDX001G24R, ASDX005G24R,
ASDX015G24R, ASDX020G24R, ASDX100G44R, ASDX001D44R, ASDX005D44R,
ASDX015D44R, ASDX030D44R, ASDX100D44R, 40PC001G2A, 40PC015G2A,
40PC100G2A, 40PC150G2A, 40PC250G2A, 40PC500G2A, 4040PC001G5D,
4040PC015G5D, 4040PC100G5D, 4040PC150G5D, 4040PC250G5D,
4040PC500G5D。

无带放大压力传感器

26PCCFG5G, 26PC01SMT, 26PC05SMT, 26PC15SMT, 24PCAFA6G, 24PCBFA6G,
24PCCFA6G, 24PCDFA6G, 24PCEFA6G, 24PCFFA6G, 24PCGFA6G, 24PCAFA6D,
24PCBFA6D, 24PCCFA6D, 24PCDFA6D, 24PCEFA6D, 24PCFFA6D, 24PCGFA6D,
24PCCFD6A, 24PCGFH6G, 26PCAFA6G, 26PCBFA6G, 26PCCFA6G, 26PCDFA6G,
26PCFFA6G, 26PCAFA6D, 26PCBFA6D, 26PCCFA6D, 26PCDFA6D, 26PCFFA6D,
1865-01G-KDN, 1865-02G-KDN, 1865-03G-KDN, 1865-05G-KDN,
1865-07G-KDN, 1865-01G-LDN, 1865-02G-LDN, 1865-03G-LDN,

1865-05G-LDN, 1865-07G-LDN, 1800-00G-KOL-B, 1800-01G-KOL-B,
1800-02G-KOL-B, 1800-03G-KOL-B, 1800-07G-KOL-B, 1800-08G-KOL-B,
1800-09G-KOL-B, 1800-10G-KOL-B, 1800-00D-K4L-B, 1800-01D-K4L-B,
1800-02D-K4L-B, 1800-03D-K4L-B, 1800-04D-K4L-B, 1800-00D-K4L-C,
1800-08D-K4L-B, 1800-08D-K4L-C, SCC15ASMT, SCC30ASMT, SCC100ASMT,
SCC300ASMT, SCC05GSMT, SCC15GSMT, SCC30GSMT, SCC100GSMT, SCC300GSMT,
SCC15ASMT, SCC30ASMT, SCC15GSMT, SCC05GSMT, SCC30GSMT, SCC05D,
SCC15D, SCC30D, SCC100D, SCC15A, SCC30A, SCC100A, SCC05DN, SCC15DN,
SCC30DN, SCC100DN, SCC05AN, SCC15AN, SCC30AN, SCC100AN, SCC05GS0,
SCC15GS0, SCC30GS0, SCC100GS0, SCC15AH0, SCC30AH0, SCC100AH0,
SCC300AH0, SCC05DP1, SCC15DP1, SCC30DP1, SCC15AP1, SCC30AP1, SCC05GD2,
SCC15GD2, SCC30GD2, SCC100GD2, SCC15AD2, SCC30AD2, SCC100AD2,
SCC05DD4, SCC15DD4, SCC30DD4, SCC100DD4, SCX01DN90, SCX05DN90,
SCX15DN90, SCX30DN90, SCX100DN90, SCX150DN90, SCX01DNC90, SCX05DNC90,
SCX15DNC90, SCX30DNC90, SCX100DNC90, SCX150DNC90, SCX01ANC90,
SCX05ANC90, SCX15ANC90, SCX30ANC90, SCX100ANC90, SCX150ANC90,
SCX01AN90, SCX05AN90, SCX15AN90, SCX30AN90, SCX100AN90, SCX150AN90,
SDX15A2, SDX15A4, SDX30A2, SDX30A4, SDX100A2, SDX100A4, SDX01G2,
SDX05G2, SDX15G2, SDX30G2, SDX100G2, SDX01D4, SDX05D4, SDX15D4,
SDX30D4, SDX100D4, SDX01D4-A, SDX05D4-A, SDX15D4-A, SDX30D4-A,
SDX100D4-A, SDX01G2-A, SDX05G2-A, SDX15G2-A, SDX30G2-A, SDX100G2-A,
SDX15A2-A, SDX15A4-A, SDX30A2-A, SDX30A4-A, SDX100A2-A, SDX100A4-A,
SX7001D, SX7005D, SX7015D, SX7030D, SX7100D, SX7150D, SX7300D, SX01D,
SX05D, SX15D, SX30D, SX100D, SX150D, SX15A, SX30A, SX100A, SX150A,
SX01DP1, SX05DP1, SX15DP1, SX30DP1, SX15AP1, SX30AP1, SX01DN, SX05DN,
SX15DN, SX30DN, SX100DN, SX15AN, SX30AN, SX100AN, SX150AN, SX01GS0,
SX05GS0, SX15GS0, SX30GS0, SX100GS0, SX150GS0, SX15AH0, SX30AH0,
SX100AH0, SX150AH0, SX01GD2, SX05GD2, SX15GD2, SX30GD2, SX100GD2,
SX01DD4, SX05DD4, SX15DD4, SX30DD4, SX100DD4, SX15AD4, SX30AD4,
SX100AD4, SX15AD2, SX30AD2, SX100AD2。

微压传感器

CPCL04DC, CPCL10DC, CPCL04DFC, CPCL10DFC, CPXL04DFC, CPXL10DFC,
CPXL01DC, CPXL10DC, XPCL04DC, XPCL10DC, XPCL04DTC, XPCL10DTC, XPX50D,
XPXL04DC, XPXL10DC, XPXL04DTC, XPXL10DTC, XSL04D, XSL10D, XSL04DC,
XSL10DC, SDXL005D4, SDXL010D, SLP004D, SLP010D, DCXL01DN, DCXL05DN,
DCXL10DN, DCXL20DN, DCXL30DN, DC001NDC4, DC002NDC4, DC005NDC4,
DC010NDC4, DC020NDC4, DC030NDC4, DC001NDR4, DC002NDR4, DC005NDR4,
DC010NDR4, DC020NDR4, DC030NDR4, DC001NDR5, DC002NDR5, DC005NDR5,
DC010NDR5, DC020NDR5, DC030NDR5, DC2R5BDC4, DC005BDC4, DC075BDC4,
DUXL01D, DUXL05D, DUXL10D, DUXL20D, DUXL30D。

高精度智能压力传感器

HPB100, HPB200, HPA100, HPA200, PPT-R, PPT0015AWN2VA-A, RDD100。

闭环线性电流

CSNA111, CSNB121, CSNB131, CSNC241, CSNE151, CSNE151-100, CSNF163,
CSNF173, CSNP661, CSNP661-002, CSNT651, CSNT651-001, CSNF161,
CSNF161-002, CSNF151, CSNF151-001, CSNR161, CSNR161-002, CSNR151,
CSNJ481, CSNJ481-001, CSNJ481-002, CSNJ481-003, CSNK591, CSNK591-001,
CSNK591-002, CSNK591-003, CSNE151-100, CSNX25DTS,

开关型电流

CSDA1BA, CSDA1BC, CSDC1BA, CSDC1BC, CSDA1AA, CSDA1AC, CSDC1AA, CSDC1AC,
CSDC1DA, CSDA1DA, CSDC1DC, CSDD1EC, CSDD1EE, CSDD1EF, CSDD1EG, CSDD1EH,
CSLH3A45。

开环线性电流

CSLA1CD, CSLA1CE, CSLA1DE, CSLA1CF, CSLA1DG, CSLA1CH, CSLA1DJ, CSLA1EJ,
CSLA1DK, CSLA1EK, CSLA1EL, CSLA2CD, CSLA2CE, CSLA2DE, CSLA2CF, CSLA2DG,
CSLA2DJ, CSLA2DH, CSLA2EJ, CSLA2DK, CSLA2EL, CSLA2EM, CSLA2EN, CSLA1GD,
CSLA1GE, CSLA1GF, CSLA2GD, CSLA2GE, CSLA2GF, CSLA2GG。

气体流量质量传感器

AWM2100V, AWM2150V, AWM2200V, AWM2300V, AWM720P1, AWM3100V, AWM3200V,
AWM3150V, AWM3300V, AWM42150VH, AWM42300V, AWM43300V, AWM43600V,
AWM5101VN, AWM5102VN, AWM5103VN, AWM5104VN, FRN11112, FRN21112,
FRN12212, FRN22212。

磁阻传感器

HMC1001, HMC1002, HMC1021, HMC1021Z, HMC1021S, HMC1023, HMC1052,
HMC1501, HMC1512, HMC2003, HMR2300, HMR2300R, HMR3000, HMR3100,
HMR3200, HMR3300。

温度传感器

HEL-700-U-O-A, HEL-700-U-O-B, HEL-700-U-O-C, HEL-700-T-O-A,
HEL-700-T-O-B, HEL-700-T-O-C, HEL-700-U-1-A, HEL-700-U-1-B,
HEL-700-U-1-C, HEL-700-T-1-A, HEL-700-T-1-B, HEL-700-T-1-C,
HEL-775-A-U-0, HEL-775-A-U-1, HEL-775-A-T-0, HEL-775-A-T-1,
HEL-775-B-U-0, HEL-775-B-U-1, HEL-775-B-T-0, HEL-775-B-T-1,
HEL-776-A-U-0, HEL-776-A-U-1, HEL-776-A-T-0, HEL-776-A-T-1,
HEL-777-A-U-0, HEL-777-A-U-1, HEL-777-A-T-0, HEL-777-A-T-1, TD4A,
TD5A。

湿度传感器

HIH3610-003, HIH3602-L-CP, HIH3602-A, HIH3602-C,

液位传感器

LLE102000, LLE105000, LL101000, LL102000, LL103000, LL104000,
LL105000, LL101101, LL102101, LL103101, LL10401, LL105100, LL20500-1,
LL205102-1, LL305002-1, LRNH31S42, LRNH51S42。

混浊度传感器

APMS-10GRCF, APMS-10GRCF-50, APMS-10GRCF-18, APMS-10GRCF-KIT。

触力传感器 FSG-15N1A, FSL05N2C

MOTOROLA 压力传感器

MPX10D MPX10DP MPX10GP MPX10GS MPXV10GC6U MPXV10GC7U MPX12D MPX12DP
MPX12GP MPX2010D MPX2010DP MPX2010GP MPXT2010G7U MPX2050D MPX2050DP
MPX2050GP MPX2050GVP MPX2050GS MPX2050GSX MPX2050GVSX MPX2053D
MPX2053DP MPX2053GP MPX2100A MPX2100DP MPX2100AP MPX2100AS
MPX2100ASX MPX2102A MPX2102D MPX2102DP MPX2102AP MPX2102GP
MPX2102GVP MPX2200A MPX2200D MPX2200DP MPX2200AP MPX2200GP MPX2200A
MPX2200D MPX2200DP MP2200AP MPX2200GP MPX21002A MPX2102D MPX2102DP
MPX2102AP MPX2102GP MPX2102GVP MPX2200A MPX2200D MPX2200DP
MPX2200AP MPX2200GP MPX2201GP MPX2300DT1 MPX4080D MPX4100A
MPXA4100A6U MPX4100AP MPXA4100A6U MPX4100AS MPX4101A MPXA4101AC6U
MPX4105A MPX4115A MPXA4115A6U MPX4115AP MPXA4115AC6U MPX4115AS
MPX4200A MPX4200AP MPX4200SA MPX4200ASX MPX4250A MPX4250AP
MPX4250A6U MPXA4250A6T1 MPXA4250AC6U MPXA4250AC6T1 MPX4250D
MPX4250GP MPX4250DP MPX5010D MPX5010DP MPX5010GP MPX5010GS
MPX5010GSX MPXV5010G6U MPXV5010G7U MPXV5010GC6U/T1 MPXV5010GC7U
MPX5050D MPX5050DP MPX5050GP MPX5100A MPX5100D MPX5100DP MPX5100AP
MPX5100GP MPX5100GVP MPX5100AS MPX5100GS MPX5100GVS MPX5100ASX
MPX5100GSX MPX5100GVSX MPX53D MPX53GP MPX5500D MPX5500DP MPX5700D
MPX5700A MPX5700DP MPX5700GP MPX5700AP MPX5700GS MPX5700AS MPX5999D
MPXA6115A6U MPXA6115AC6U MPXA6115A MPXA6115A6T1 MPXA6115AC6T1
MPXAZ4100A6U MPXAZ4100A MPXAZ4100A6T1 MPXAZ4100AC6U MPXAZ4100AC6T1
MPXAZ4115A6U MPXZ4115A MPXAZ4115A6T1 MPXAX4115AC6U MPXAZ4115AC6T1
MPXC2011DT1 MPXM2010D MPXM2010DT1 MPXM2010GS MPXM2010GST1 MPXM2053D
MPXM2053DT1 MPXM2053GS MPXM2053GST1 MPXV4006GC6U MPXV4006G6U
MPXV4115V6U MPXV4115V6T1 MPXV4115VC6U MPXV5004GC6U/T1
MPXV5004G6U/T1 MPXV5004G7U MPXV5004G7U MPXY8010 MPXY8020 MPXY8030
MPXY8040

供应 Honeywell 常用型号 EC/RM7832 EC/RM7890A EC/RM7890B EC/详细说明
我公司现特优供应以下 Honeywell 配件, 价格优惠, 如有需求者请与聂小姐, 彭先生联系。
供应 Honeywell 燃烧程序控制器 EC7800/RM7800 (220V/110V)。
供应 Honeywell 常用型号 EC/RM7832 EC/RM7890A EC/RM7890B EC/RM
7810A EC/RM7850A RM7800L/RM7850L RM7885 燃烧程序控制器。
供应 Honeywell 通用接线座 Q7800A1005 Q7800B1003。
供应 Honeywell 吹扫时间定卡 ST7800A1013 ST7800A1021 ST7800A1039 ST7800A1047
ST7800A1054 ST7800A1062 ST7800A1070。
供应 Honeywell 工作状态通讯显示板 S7800A1001。
供应 Honeywell 数据通讯板 S7810A1009 及远端复位板 S7820A1007。
供应 Honeywell 火焰信号放大器 R7847A1025 R7847A1033 R7847A1074 R7847B1031
R7847C1005 R7849A1015 R7849A1023 R7849B1021 R7848A1008 R7861A1026 R7861A1034
R7886A1001
供应火焰开关控制器 R4343D1017 R434E104 C7012A/C 及离子探针型火焰探测器
供应基本型燃烧安全控制器 RA890F1304 RA890G1245。
供应离子探针型火焰探测器 C7008A1174 C7008A1182 C7009A1009 C7009A1025 C7009A1058
供应红外线滤波火焰探测器 C7015A1076 C7015A1092 C7015A1126

供应一体化紫外线型火焰探测器 C7027A1023 C7027A1031 C7027A1049 C7027A1064
C7027A1072 C7027A1080。

供应紫外线火焰探测器 C7035A1023 C7035A1031 C7035A1056 C7035A1080

供应紫外线火焰探测器 C7012A1145 C7012A1152 C7012A1160 C7012A1186 C7012A1194
C7012C1042 C7012E1104 C7012E1112 C7012E1120 C7012E1146 C7012E1153 C7012E1161
C7012E1278 C7012F1052

供应数字微处理型燃油燃烧程序控制器 DKO 970 DKO 972 DKO 976

供应数字微处理型燃气燃烧程序控制器 DKG 972 DMG 970 DMG 971 DMG 972 DMG 973

供应模拟型燃油燃烧程序控制器 TF830.3 TF832.3 TF834.3 MMO 872

供应点火变压器: ZT870 ZT930 ZT931。

供应火焰探测器: MZ 770 IRD 1010 IRD 1020 UVD 970 UVD 971 UVZ 780

供应油加热器 SOVE 930 SOVU 930

供应风门执行器 MT4000A MT4000B MT4001A MT4001B MT4001C MT4002B MT4003C

LKS 118 LKS 131 LKS 160 LKS 170 LKS 310

供应风门执行器 M6264A1048 M6284A1055 M6284C1010 M7284A1004 M7284A1012
M7284C1000 M7284Q1009 M7294Q1007 M9184A1035

供应风门执行器 MODUTROL IV 198162GA 7616BR 7617ADW 220738A

供应锅炉压力控制开关 L404A1354 L404A1370 L404A1396 L404A1404 L404A1636 L404B1304
L404B1320 L404B1346 L404B1353 L404B1577 L404C1139 L404C1147 L404C1162 L404D1088
L404D1092 L404F1060 L404F10787 L404F1094 L404F1102

供应锅炉蒸汽压力控制开关 L91B1019 L91B1035 L91B1043 L91B1050 L91B1068 L91B1241
P78010C1000 P7810C1018 P7810C1026 P7810D1008 P7810D1016 P7810D1024 高压限位。

供应燃气,空气压力开关 C6097A2110 C6097A2210 C6097A2310 C6097A2410 C6097A2200
C6097A2300 C6097A2400

供应燃气电磁阀 VE408AA1008,VE4000A1002,VE4000B1043,VE4000B3004
VE4010C1094 VE4015C1000

供应电液执行器型及电磁阀 V4055A1114 VE5080A3004 VE5100A3000

VQ420 VQ425 VQ440 VR415AA1000 VR425MB1001 KTCOMS VQ465 VQ480

KTPL33 VG415AA VG420SA VG4032A VG4040S VG4080 BT-BC 66810

供应燃气调节蝶阀 VF5025A3007 VF5032A3003 VF5040A3006 VF5050A3005 VF5065A3003
VF5080A3002 VF5100A3008 VF5125A3005 VF5150A3003

供应调压器及过滤器 HUPE 015 B 150 HUPE 080 B 350 HUFF 100 B 350

大量供应 S 铂铑 350 400 450 500 550 600 650 700 750 800 热电偶

大量供应 K 型不锈钢 350 400 450 500 550 600 650 700 热电偶

大量供应台湾智能表 P909-701 P909-301 T990-701 T990-301 温控仪表

大量供应 XMZ-101C S K 单显表。

XL50 控制器

XL50 DDC 22I/O W/O TERM

XL50-MMI DDC 22I/O INCL. MMI W/O TERM

XS50 XL50 TERMINAL SET

XD50-E XL50 EPROM module

XD50-FC Excel 50 Communication Card for C-Bus

XD50-FL Excel 50 Communication Card for C-Bus

XD50B-FCL LON/C-BUS APPL. MOD. FREE PROGR.
XL50-ACC3 MOUNT ACC. FRONT DOOR
XL50-FP XL50 package with terminals XS50 and applicationmoduleXD50-FC,
without MMI
XL50-MMI-EP XL50 package with terminals XS50 and applicationmoduleXD5
0-FC, with MMI
XL50-MMI-FP XL50 package with terminals XS50 and applicationmoduleXD5
0-FC, with MMI
XL50UMMIPCCBLON XL50 FREI PROGR. +XS50+XD50B-FCL
XL50UMMIPCLON XL50-MMI FREEPROG. +XS50+XD50FL
XL50UPCCBLON XL50 FREI PROGR. +XS50+XD50B-FCL
XL50UPCLON XL50 FREE PRORG. +XS50+XD50-FL
XM500-EU TCP/IP MODEM
MCD3 AO CONVERTER 1*3POS 1*ON/OFF
MCE3 Relay Module, Two Spdt Outputs, One Spst Output

XL1000 Web 控制器
XL1000B50 Controller Excel Web(R) BACnet DDC
XL1000B100 Controller Excel Web(R) BACnet DDC
XL1000B500 EXCEL WEB(R) BACNET CONTROLLER
XL1000B1000 EXCEL WEB(R) BACNET DDC CONRTOLLER

XL500 系列 XC 5010C 控制器系列 (2008 年 03 月 20 号停产)
XC5010C Excel 500 16-bit CPU module
XC5210C EXCEL500 CPU WITH HIGH MEMORY
XP502 POWER SUPPLY
XD505A C-Bus Interface Submodule Retrofit Kit, 9600 Baud
XD508 C-Bus High Speed Interface Submodule Retrofit Kit, 1MBaudspeed
XDL505 APPLICATION MOD. FOR XL500SMART
XDM506 XL600, 500, 100, 80 Modem Communication Submodule -ProvidesDia
l-In/Dial-Out for single controllers
XF521A ANALOG INPUT MODULE
XF522A ANALOG OUTPUT MODULE
XF523A DIGITAL INPUT MODULE
XF524A DIGITAL OUTPUT MODULE
XF525A Three Position Output Module
XF526 ANALOGUE INPUT MODULE PT-SENS.
XF527 ANALOG OUTPUT MOD. W/O SWITCH
XF529 Digital Output Module
XF599 Blank Module Slot Cover
XH561 Excel 500 or 600 Universal Input/Output Module Housing
XH562H Universal Input/Output Blank Housing Cover
XHSACC Service package containing 1200 socket coding plugs, 200covers
for internal bus and 100 service keys

XW568 BUS CABLE 90 MM

XW569 BUS CABLE 350 MM

XL500 Smart XCL5010 控制器系列 (2008 年 03 月 20 号停产)

XCL5010 Freely Programmable DDC controller

XFL521B Distributed I/O, Analog Input Module, 12 resolution

XFL522B Distributed I/O, Analog Output Module, 8 resolution

XFL523B Distributed I/O, Analog Output Module, 18 Vdcauxiliaryvoltage supply

XFL524B Distributed I/O, Analog Output Module, Cycle time 1secwithCPU

XFLR522B AO MODULE + MANUAL OVERRIDE

XFLR524B DO MODULE + MANUAL OVERRIDE

XFR522A Manual Override Module For XFL522B

XFR524A Manual Override Module For XFL524B

XSL511 CONNECTOR MODULE

XSL512 DISCONNECTOR MODULE

XSL513 TERMINAL BLOCK AI, AO, DI

XSL514 TERMINAL BLOCK DO

BNA 建筑网络适配器 / XW582 手持终端

Q7055A1007 BNA-1C

Q7055A1015 BNA-2CS 2-BUS DIRECT CONNECT

Q7055A1023 BNA-2DN 2DIRECT CONNECT DELTA

XI581AH For controllers XC5010C and XC6010; mounting on EXCEL5000housing XH561

XI581CH For controllers XC5010C and XC6010; mounting on EXCEL5000housing XH561, mounts directly on the front of a controller

XI581TW For controllers XC5010C and XC6010; mounting on EXCEL5000housing XH561

XI582AH For all EXCEL 5000 controllers, desktop model, also suitable for wallmounting

XI582CH For controllers XC5010C and XC6010; mounting on EXCEL5000housing XH561, mount away from a controller

XI582-CY For all EXCEL 5000 controllers, desktop model, also suitable for wallmounting

XI582TW For all EXCEL 5000 controllers, desktop model, also suitable for wallmounting

专用控制器 VAV/FCU/CAV 系列

Q7750A1005 Excel 10 Zone Manager

Q7750A2003 Excel 10 Zone Manager

W7704D1016 XL12 WITH 230 VAC

W7704D1024 XL12 WITH 100VAC

W7750B2011 Excel 10 for constant volume air handling units with triac outputs

W7750C2001 Excel 10 for constant volume air handling units with triac and analog outputs

W7751D2008 EXCEL10 VAV INTERNAL WIRING

W7751F2003 EXCEL10 VAV EXTERNAL WIRING

W7751H2009 XL10 SMART VAV CONTROLLER FTT

W7751H2025 Excel 10 smart VAV controller with a premounted ML6161 Actuator

W7752D2007 XL10 FANCOIL CONTROLLER 230V FTT

W7752F2002 XL10 FANCOIL CONTROLLER 115V FTT

W7752G2000 XL10 FANCOIL CONTROLLER 3 REL.

W7754K1001 XL10 FANCOIL CONTR. NEW HARDW

W7754P1000 XL10 FANCOIL CONTR. NEW HARDW

W7754Q1008 XL 10 Fancoil contr. new hardware 24V (Drawing 50007908)

W7762B1019 Controller for hydronic installations, Excel 10

W7763C1016 XL10-CHC CONTROLLER SETPOINT F

W7763C1024 XL10-CHC HYDRONIC CONTROLLER

W7763C1032 XL10-CHC HYDRONIC CONTROLLER

W7763C1081 XL10-CHC CONTROLLER SETPOINT F

W7763D1030 XL10-CHC CONTROLLER SETP. +/-

W7763E1003 XL10-CHC HYDRONIC CONTROLLER

XL800 控制器 XCL8010A

XCL8010A Excel 800 plant controller

Panel I/O

XF821A 8 analog input module (Panel)

XF822A 8 analog output module (Panel)

XFR822A 8 analog output module with override (Panel)

XF823A 12 binary input module (Panel)

XF824A 6 relay output module (Panel)

XFR824A 6 relay output module with override (Panel)

XFR825A Actuator output module with override (Panel)

Lon I/O

XFL821A 8 analog input module (LON)

XFL822A 8 analog output module (LON)

XFLR822A 8 analog output module with override (LON)

XFL823A 12 binary input module (LON)

XFL824A 6 relay output module (LON)

XFLR824A 6 relay output module with override (LON)

Terminal socket Model

XS821-22 Terminal socket for analog input and output modules. The package includes 1 terminal socket, 1 connector bridge and 1 swivel label.

XS823 Terminal socket binary input modules. The package includes 1 terminal socket, 1 connector bride and 1 swivel label.

XS824-25 Terminal socket relay output and floating output modules. The package includes 1 terminal socket, 1 connector bride, 1 cross connector and 1 swivel label.

Accessory (Optional)

XS812 Manual disconnecter module for analog input, analog output and binary input. The manual disconnecter is plugged between the terminal socket and the electronic module. It allows manual disconnection of individual signals. This is useful during start-up.

XS812R0 Manual disconnecter module for relay output. The manual disconnecter is plugged between the terminal socket and the electronic module. It allows manual disconnection of individual signals. This is useful during start-up.

XS814 10 auxiliary terminal blocks. The auxiliary terminal block is used for distribution of signals. It includes 2 blocks with 7 terminals which are connected to each other.

XS815 20 cross connectors (red in below figure) for connection of 6 relay commons. One cross connector is included in the terminal socket package.

XS817 40 cross connectors (red in below figure) for connection of 3 relay commons (used if voltage on relay 1...3 is different to voltage on relay 4...5)

XS816 10 bus bridges. One bus bridge is included in the terminal socket package.

XAL10 10 swivel labels. The swivel label is used to attach the application specific label printed with CARE. One swivel label is included in the terminal socket package.

XW882 XI582 cable for Excel 800 (a combination of XW586 and XW582 can be also used).

XW885 Download cable for Excel 800 (a combination of XW586 and XW585 can be also used).

XW884 Adapter cable to use XW882 and XW885 with an XL500 controller

XL100C 控制器

XL100C XL100C WITH INTERFACE F.C-BUS

XL100C-MMI XL100C+XI582AH+XW582+INTERFACE

XL100CU CONTROLLER W. INTEGR. COMM. UL916

XL100CUUKL CONTR. W. INTEGR. COMMUNICATION

SymmetrE 基本软件及数据库扩展包

SYMSTARTER-CD310 Includes a 250 point database

SYM-DB2-5-EXP Expansion Pack - 250 to 500 pnt DB
SYM-DB5-10-EXP Expansion Pack - 500 to 1000 pnt DB
SYM-DB10-20-EXP Expansion Pack - 1000 to 2000 pnt DB
SYM-DB20-35-EXP Expansion Pack - 2001 to 3500 pnt DB
SYM-DB35-50-EXP Expansion Pack - 3501 to 5000 pnt DB
SYM-DB50-75-EXP Expansion Pack - 5001 to 7500 pnt DB
SYM-DB75-10K-EXP Expansion Pack - 7501 to 10000 pnt DB
SYM-DB10K-15K-EXP Expansion Pack - 10001 to 15000 pnt DB
SYM-DB15K-20K-EXP Expansion Pack - 15001 to 20000 pnt DB
SymmetrE 接口选项
SYM-IF-XL5DIRDIAL SymmetrE Excel 5000 Direct Dial-up Interface
SYM-IF-ADVDDDECL AdvancedDDE
SYM-IF-BACNET BACnet Client
SYM-IF-MOVBUS Modbus
SYM-IF-OPCCL OPC Client
SYM-STB-UP-STN Upgrade Browser Client to Full Station Client
SYM-OP-LNS LNS Server
SYM-OP-BACSERV BACnet Server
SYM-NW-OPCSERV OPC Server
SYM-OP-DTXL OPC Data Transfer - Local
SYM-OP-ALMPAG Alarm Pager software license
SYM-OP-IMM Inegrated Maintenance Manager
SYM-OP-WEBPCTL Web Point Control

SymmetrE 升级包

SYM-OP-LNSUPG Upgrade to LNS 3.2 from LNS 3.0
SYM-DB0500-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 500 POINTDB
SYM-DB1000-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 1000 POINTDB
SYM-DB2000-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 2000 POINTDB
SYM-DB3500-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 3500 POINTDB
SYM-DB5000-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 5000 POINTDB
SYM-DB7500-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 7500 POINTDB
SYM-DB10K-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 10000 POINTDB
SYM-DB15K-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 15000 POINTDB
SYM-DB20K-UPG SYMMETRE SOFTWARE VERSION UPGRADE WITH 20000POINTDB

CARE 软件及升级授权

CARE-70-BASIC Software license for CARE, Open Link PointServer, EPROM Burn Tool and XL-Online without RACL and ASPECDEditor, CARE-KEY replacement+LON Engineering
CARE-70-FULL Software license for CARE, Open Link PointServer, EPROM Burn Tool and XL-Online without RACL and ASPECDEditor+LonEngineering+L

NS License+RACL+ASPECD Editor, CARE-FULL-KEYreplacement
CARE-70-LNS Software license for CARE, Open Link Point Server, EPROMBurn Tool and XL-Online without RACL and ASPECDEditor+LonEngineering+LNS License
CARE-FU-LNS Upgrade to LNS
CARE-FU-LON Upgrade to Lon functionality
CARE-FU-WEB Upgrade to XL-WEB
EXCELON EXCELon LonWork Network Management Tool. SoftwareLicenseRequired
XL-ONLINE Excel Online, Commissioning tool for EXCEL5000Controllers

Honeywell红外传感器常用型号主要包括: SE2470, SD2440, SE1450, SD1440, SE5470, SD5443, HOA080, SEP-4216, SDP-4206, SEP-4208, SDP-0323, SDP-3208, SEP-0322, SDP-0301, SME-2480, SMD-2441, HOA-0872, HOA-0301, HOA-0306, HOA-1550, HOA-15D11, HOA-15D21, HOA-30DC1, HOA6480 Honeywell 红外传感器-光电接收三极管SD1440-001, SD1440-002, SD1440-003, SD1440-004, SD1440-001L, SD1440-002L, SD1440-003L, SD1440-004L, SD2440-001, SD2440-002, SD2440-003, SD2440-004, SD3443-001, SD3443-002, SD3443-003, SD5443-001, SD5443-002, SD5443-003, SD5443-004, SD5491-001, SD5491-002, SD5491-003, SD5491-004, SD5491-005, SD5491-006, SDP8405-001, SDP8405-002, SDP8405-003, SDP8405-011, SDP8405-012, SDP8405-013, SDP8405-014, SDP8405-015, SDP8406-001, SDP8406-002, SDP8406-003, SDP8406-004 Honeywell 红外传感器-光电接收二极管SD1420-002, SD1420-002L, SD2420-002, SD3421-002, SD5421-002, SDP8276-001 Honeywell红外传感器-光电接收达林顿管SD1410-001, SD1410-002, SD1410-003, SD1410-004, SD1410-001L, SD1410-002L, SD1410-003L, SD1410-004L, SD2410-001, SD2410-002, SD2410-003, SD3410-001, SD3410-002, SD3410-003, SD3410-004, SD5410-001, SD5410-002, SD5410-003, SDP8105-001, SDP8106-001 Honeywell红外传感器-阻挡弱光的光电三极管SDP8475-201, SDP8476-201 适用于要求抵制环境光线的干扰的应用中, 以及在对射的应用中, 当阻断物为半透明的物体时。在反射的应用中, 当可能出现背景反射时, 这种器件可以提高对比度。Honeywell红外传感器-塑料封装红外LED SEP8505-001, SEP8505-002, SEP8505-003, SEP8705-001, SEP8705-002, SEP8705-003, SEP8506-001, SEP8506-002, SEP8506-003, SEP8706-001, SEP8706-002, SEP8706-003 Honeywell红外传感器-金属外壳气密封装红外LED SE1450-001, SE1450-002, SE1450-003, SE1450-004, SE1470-001, SE1470-002, SE1470-003, SE1470-004, SE1450-001L, SE1450-002L, SE1450-003L, SE1450-004L, SE1470-001L, SE1470-002L, SE1470-003L, SE1470-004L, SE2460-001, SE2460-002, SE2460-003, SE2470-001, SE2470-002, SE3450-011, SE3450-012, SE3450-013, SE3450-014, SE3455-001, SE3455-002, SE3455-003, SE3455-004, SE3470-001, SE3470-002, SE3470-003, SE5450-011, SE5450-012, SE5450-013, SE5450-014, SE5455-001, SE5455-002, SE5455-003, SE5455-004, SE5470-001, SE5470-002, SE5470-003, SE5470-004 Honeywell红外传感器-光电施密特接收管SD5600-001, SD5610-001, SD5620-001, SD5620-002, SD5630-001, SD5630-002, SDP8004-301, SDP8014-301, SDP8304-301, SDP8014-301, SDP8604-301, SDP8614-301, SDP8371-001, SDP8600-001, SDP8601-001, SDP8602-001, SDP8610-011, SDP8611-011, SDP8612-011, SDP8600-002, SDP8601-002, SDP8602-002, SDP8610-002, SDP8611-002, SDP8612-002, SDP8600-003, SDP8601-003, SDP8602-003, SDP8610-003, SDP8611-003, SDP8612-003 Honeywell红外传感器-光电施密特对射组件(高迟滞) HOA696_0-L51, HOA696_1-L51, HOA696_2-L51, HOA696_3-L51, HOA696_4-L51, HOA696_5-L51, HOA696_0-L55, HOA696_1-L55, HOA696_2-L55, HOA696_3-L55, HOA696_4-L55, HOA696_5-L55, HOA697_0-L51, HOA697_1-L51, HOA697_2-L51, HOA697_3-L51, HOA697_4-L51, HOA697_5-L51, HOA697_0-L55, HOA697_1-L55, HOA697_2-L55,

HOA697_3-L55, HOA697_4-L55, HOA697_5-L55, HOA696_0-N51, HOA696_1-N51, HOA696_2-N51, HOA696_3-N51, HOA696_4-N51, HOA696_5-N51, HOA696_0-N55, HOA696_1-N55, HOA696_2-N55, HOA696_3-N55, HOA696_4-N55, HOA696_5-N55,
HOA697_0-N51, HOA697_1-N51, HOA697_2-N51, HOA697_3-N51, HOA697_4-N51, HOA697_5-N51, HOA697_0-N55, HOA697_1-N55, HOA697_2-N55, HOA697_3-N55, HOA697_4-N55, HOA697_5-N55,
HOA696_0-P51, HOA696_1-P51, HOA696_2-P51, HOA696_3-P51, HOA696_4-P51, HOA696_5-P51, HOA696_0-P55, HOA696_1-P55, HOA696_2-P55, HOA696_3-P55, HOA696_4-P55, HOA696_5-P55,
HOA697_0-P51, HOA697_1-P51, HOA697_2-P51, HOA697_3-P51, HOA697_4-P51, HOA697_5-P51, HOA697_0-P55, HOA697_1-P55, HOA697_2-P55, HOA697_3-P55, HOA697_4-P55, HOA697_5-P55,
HOA696_0-T51, HOA696_1-T51, HOA696_2-T51, HOA696_3-T51, HOA696_4-T51, HOA696_5-T51, HOA696_0-T55, HOA696_1-T55, HOA696_2-T55, HOA696_3-T55, HOA696_4-T55, HOA696_5-T55,
HOA697_0-T51, HOA697_1-T51, HOA697_2-T51, HOA697_3-T51, HOA697_4-T51, HOA697_5-T51, HOA697_0-T55, HOA697_1-T55, HOA697_2-T55, HOA697_3-T55, HOA697_4-T55, HOA697_5-T55,
HOA7720-M22, HOA7730-M22 Honeywell 红外传感器-光电施密特对射组件(低迟滞) HOA0961-L51, HOA0961-L55, HOA0963-L51, HOA0963-L55, HOA0971-L51, HOA0971-L55, HOA0973-L51, HOA0973-L55, HOA0961-N51, HOA0961-N55, HOA0963-N51, HOA0963-N55, HOA0971-N51, HOA0971-N55, HOA0973-N51, HOA0973-N55, HOA0961-P51, HOA0961-P55, HOA0963-P51, HOA0963-P55, HOA0971-P51, HOA0971-P55, HOA0973-P51, HOA0973-P55, HOA0961-T51, HOA0961-T55, HOA0963-T51, HOA0963-T55, HOA0971-T51, HOA0971-T55, HOA0973-T51, HOA0973-T55, HOA2001-001, HOA2003-001, HOA2004-001, HOA2006-001 Honeywell 红外传感器-反射式光电组件 HOA0149-001, HOA0708-001, HOA0708-011*, HOA0709-001, HOA0709-011*, HLC1395-001, HLC1395-002, HOA1397-001, HOA1397-002, HOA1397-031, HOA1397-032, HOA1404-001, HOA1404-002, HOA1404-003, HOA1405-001*, HOA1405-002*, HOA2498-001, HOA2498-002, HOA2498-003 Honeywell 红外传感器-对射式光电组件 HOA0825-001, HOA0825-002, HOA0825-003, HOA0825-004, HOA0860-L51, HOA0860-L55, HOA0861-L55, HOA0862-L55, HOA0865-L51, HOA0865-L55, HOA0866-L55, HOA0867-L55, HOA0870-L51, HOA0870-L55, HOA0871-L55, HOA0872-L55, HOA0875-L51, HOA0875-L55, HOA0876-L55, HOA0877-L55, HOA0860-N51, HOA0860-N55, HOA0861-N55, HOA0862-N55, HOA0865-N51, HOA0865-N55, HOA0866-N55, HOA0867-N55, HOA0870-N51, HOA0870-N55, HOA0871-N55, HOA0872-N55, HOA0875-N51, HOA0875-N55, HOA0876-N55, HOA0877-N55, HOA0860-P51, HOA0860-P55, HOA0861-P55, HOA0862-P55, HOA0865-P51, HOA0865-P55, HOA0866-P55, HOA0867-P55, HOA0870-P51, HOA0870-P55, HOA0871-P55, HOA0872-P55, HOA0875-P51, HOA0875-P55, HOA0876-P55, HOA0877-P55, HOA0860-T51, HOA0860-T55, HOA0861-T55, HOA0862-T55, HOA0865-T51, HOA0865-T55, HOA0866-T55, HOA0867-T55, HOA0870-T51, HOA0870-T55, HOA0871-T55, HOA0872-T55, HOA0875-T51, HOA0875-T55, HOA0876-T55, HOA0877-T55, HOA1872-001, HOA1872-002, HOA1872-003, HOA1872-011, HOA1872-012, HOA1872-013, HOA1873-001, HOA1873-002, HOA1873-003, HOA1873-011, HOA1873-012, HOA1873-013, HOA1874-001, HOA1874-002, HOA1874-003, HOA1874-011, HOA1874-012, HOA1874-013, HOA1875-001, HOA1875-002, HOA1875-003, HOA1876-001, HOA1876-002, HOA1876-003, HOA1877-001, HOA1877-002, HOA1877-003, HOA1879-011, HOA1879-012, HOA1879-013, HOA1882-011, HOA1882-012, HOA1882-013, HOA1883-011, HOA1883-012, HOA1883-013, HOA1884-011, HOA1884-012, HOA1884-013, HOA1885-011, HOA1885-012, HOA1885-013, HOA1886-011, HOA1886-012, HOA1886-013, HOA1888-011, HOA1888-013, HOA2862-001, HOA2862-002, HOA2862-003, HOA1889-011, HOA1889-013

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