

Sensors & Transducers

Proximity Switches-Inductive & Capacitive

Proximity Switch-Inductive

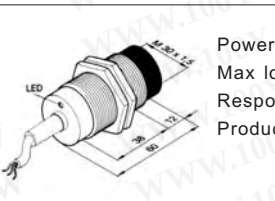
Detailed product specifications are available on: us.100y.com.tw



117487
Proximity sensor
Sensor proximity of ferrous and non-ferrous metals
• Input: +5VDC
• Output: 0.4VDC level change



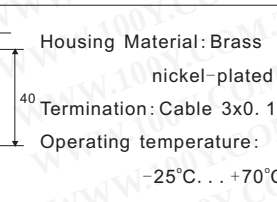
9956-1400



Power: AC90~250V, 50/60Hz
Max load: 180mA
Respondent speed: 15Hz
Productive grade: IP67



9961-0200



Housing Material: Brass
nickel-plated
Termination: Cable 3x0.14
Operating temperature:
-25°C...+70°C



9961-0500



Operating voltage:
10~30V DC
Max. load current:
200mA
Switching frequency
200 Hz
Housing material:
Brass nickel-plated



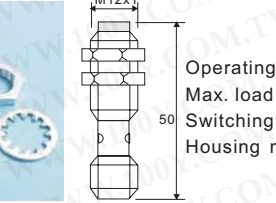
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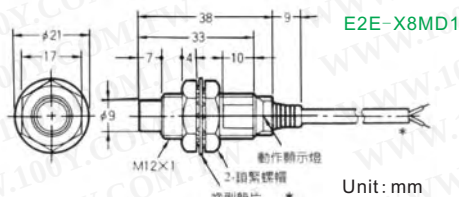
9982-2265



Operating voltage: 18~30VDC
Max. load current: 120mA
Switching frequency: 1000Hz
Housing material: Brass nickel-plated



Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
11606	117487		Sensor proximity of ferrous & non-ferrous metals			0.4Vdc level change Input: +5Vdc
16186	9956-1400	Pulsotroni	M30 AC Proximity Switch-Inductive	M30*60mm	15mm	N.O.
44502	9961-0200	Pulsotroni	M8 Proximity Switch-Inductive		1.5mm	DC10~30V type-PNP Normally Open
23856	9961-0300	Pulsotroni	M8 Proximity Switch-Inductive		1.5mm	DC10~30V type-NPN NO-output
14383	9961-0500	Pulsotroni	M8 Proximity Switch-Inductive	M8*43mm	2mm	DC10~30V type-NPN NO-output
34214	9962-1535	Pulsotroni	Pulsotronic Proximity Switch-Inductive	2.0mm		
49961	9962-2330	Pulsotroni	Proximity Switch-Inductive			
48717	9981-1002	Pulsotroni	Proximity Switch-Inductive	1.5mm		
39001	9981-2000	Pulsotroni	Proximity Switch-Inductive	1.5mm		
48716	9981-2010	Pulsotroni	Proximity Switch-Inductive	1.5mm		
29267	9982-2265	Pulsotroni	Proximity Switch-Inductive	4.0mm		



OMRON

Item	Dimensions Insulation Style	M8		M12		M18		M30	
		Insulation	uninsulation	Insulation	uninsulation	Insulation	uninsulation	Insulation	uninsulation
		E2E-X2D	E2E-X4MD	E2E-X3D	E2E-X8MD	E2E-7D	E2E-X14MD	E2E-X10D	E2E-X2MD
Power voltage:		DC12~24V (p-p) 10% hereinafter (DC10~30V)							
Environmental temperature:		Work: -25~+70℃ Reserve: -40+85℃							
Insulated resistance:		>50MΩ(DC500V mega)							
Voltage proof		AC 1, 000V 50/60Hz 1 min							

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
38094	E2E-X10E1	OMRON	OMRON Proximity Switch-Inductive	10mm	NPN NO	M30
38091	E2E-X10ME1	OMRON	OMRON Proximity Switch-Inductive	10mm	M18	NPN NO
38104	E2E-X14MD1	OMRON	OMRON Proximity Switch-Inductive	14mm	M18	NO
38115	E2E-X14MD2	OMRON	OMRON Proximity Switch-Inductive	14mm	M18	NC
38106	E2E-X20MD1	OMRON	OMRON Proximity Switch-Inductive	20mm	M30	NO
38117	E2E-X20MD2	OMRON	OMRON Proximity Switch-Inductive	20mm	M30	NC
50158	E2E-X2D1-N		OMRON Proximity Switch-Inductive	M8	2mm	NO
37976	E2E-X2E1	OMRON	OMRON Proximity Switch-Inductive	2mm	M12	NPN NO
29802	E2E-X4MD1-N	OMRON	OMRON Proximity Switch-Inductive	4mm	M8	NO
38109	E2E-X4MD2	OMRON	OMRON Proximity Switch-Inductive	4mm	M8	NC



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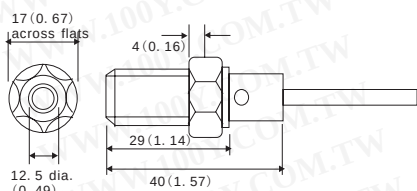
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Sensors & Transducers

Proximity Switch-Inductive

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Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
10698	E2E-X8MD1-N	OMRON	OMRON_Proximity Switch-Inductive	M12-Metal Thread	8mm	NO Multi-Overload Circuit Protection
48567	E2E-X8MD1S-M1-N	OMRON	OMRON_Proximity Switch-Inductive		8mm	NO
38112	E2E-X8MD2	OMRON	OMRON_Proximity Switch-Inductive	8mm	M12	NC
41663	E2EC-CR8D1	OMRON	Programmable Controller-compatible	3dia	0.8mm	NO

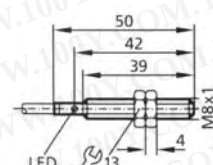
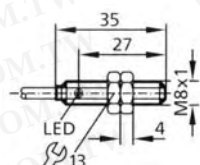
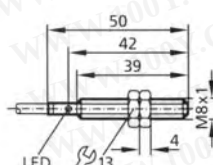
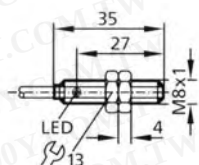
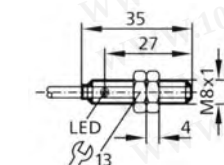


- Rugged, watertight plastic housing offers good chemical resistance and with-stands
- Wide operating voltages: 10 to 30 VDC and 20 to 264 VAC
- Operation indicator on all models
- Short-circuit protection available on all DC and some AC models

Part number	E2F-X2 . . .
Supply voltage	10 to 30 VDC
Current consumption	17 mA max.
Detectable object type	Metallic objects
Weight with cable	Approx. 50 g (1.8 oz)
Ambient operating temperature	-25°C to 70°C (-13°F to 158°F)
Vibration	10 to 55 Hz, 1.5 mm (0.06 in) double amplitude
Shock	Approx. 100 G
Indicators	Target Present (red LED)
Response frequency	1.5 kHz
Standard target size (mild steel, L x W x H)	12 x 12 x 1 mm (0.47 x 0.47 x 0.04 in)



Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
14220	E2F-X2Y1	OMRON	Proximity Switch-Inductive-Vin:10-30Vdc & 24-24030VAC, AC-2 Output	M12-Plastic thread	2mm	NO



IE5082/IEB3001-ANOG IE5107/IEC3002-ANOG IE5202/IE-2002-FROG IE5207/IEB2001-AROG IE5222/IEA2001-FROG

Electrical design	DC NPN	DC NPN	DC PNP/NPN	DC PNP/NPN	DC
Output	normally open	normally open	normally open / closed programmable	normally open	normally open / closed programmable
Operating voltage [V]	10...36 DC	10...36 DC	5...36 DC	10...36 DC	5...36 DC
Current rating [mA]	200	200	200	200	200
Short-circuit protection	—	—	—	—	—
Reverse polarity protection / Overload protection	—	—	—	—	—
Voltage drop [V]	< 1	< 1	< 4,6	< 2,6	< 4,6
Current consumption [mA]	< 15 (24V)	< 15 (24V)	< 0,8	< 0,8	< 0,8
Real sensing range [mm]	1 ±10%	2 ±10%	2 ±10%	1 ±10%	1 ±10%
Operating distance [mm]	0...0,8	0...1,6	0...1,6	0...0,8	0...0,8
Operating temperature [°C]	-25...+80	-25...+80	-25...+80	-25...+80	-25...+80
Protection	IP 67	IP 67	IP 67, III	IP 67	IP 67, III
Housing material	brass Optalloy-plated PBTP	PBTP	Pocan ARNITEL	brass Optalloy-plated PBTP	brass Optalloy-plated active face: PBTP
Connection	PVC cable / 2m; 3 x 0,14mm ²	PVC cable / 2m; 3 x 0,14mm ²	PUR/PVC cable / 2m; 2 x 0,14mm ²	PVC cable / 2m; 2 x 0,14mm ²	PUR/PVC cable / 2m; 2 x 0,14mm ²
Wiring	Core colours BN brown BU blue BK black				

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
4851	IE5082/IEB3001-ANOG	IFM	Proximity Switch-Inductive-Vin:10-36Vdc , DC-3 Output	M8-Metal Thread	1mm	NO NPN-No Overload Circuit Protection
4357	IE5107/IEC3002-ANOG	IFM	Proximity Switch-Inductive-Vin:10-36Vdc , DC-3 Output	M8-Plastic thread	2mm	NO NPN-No Overload Circuit Protection
4853	IE5202/IE-2002-FROG	IFM	Proximity Switch-Inductive-Vin:5-36Vdc , DC-2 Output	M8-Plastic thread	2mm	NO/NC NPN/PNP-No Overload Circuit Protection
14617	IE5207/IEB2001-AROG	IFM	Proximity Switch-Inductive	M8	1mm	DC PNP/NPN
4852	IE5222/IEA2001-FROG	IFM	Proximity Switch-Inductive-Vin:5-36Vdc , DC-2 Output	M8-Metal	1mm	NO/NC NPN/PNP-No Overload Circuit Protection



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IE5262/IEB3001-BPKG



IE5270/IEB21.5-AROG/PH



IF5597/IF-2004-FRKG



IF5718 IFC2004-ARKG/UP



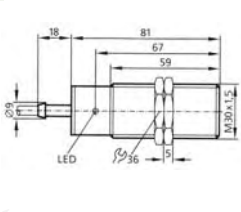
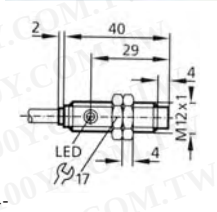
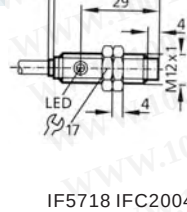
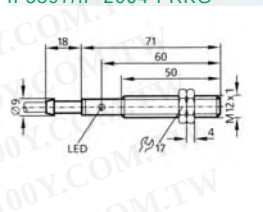
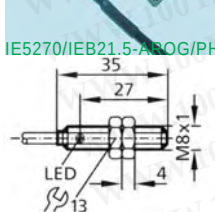
IF5719/IFB2004-ARKG/UP



I15272



IE5267/IEB3001-BPKG



Electrical design	IE5270/IEB21.5-AROG/PH	IF5597/IF-2004-FRKG	IF5718 IFC2004-ARKG/UP	IF5719/IFB2004-ARKG/UP	I15272
Output	DC PNP/NPN	DC	DC PNP/NPN	DC PNP/NPN	DC PNP
Operating voltage [V]	5...36 DC	normally open / closed programmable	normally open	normally open	normally open
Current rating [mA]	200	10...55 DC	10...36 DC	10...36 DC	10...36 DC
Voltage drop [V]	< 4,6	400	150	150	250
Real sensing range [mm]	1,5 ±10%	< 4,6	< 4,6	< 4,6	< 2,5
Operating distance [mm]	4 ±10%	0...1,2	0...3,25	0...3,25	0...8,1
Operating temperature [°C]	0...+60	0...3,25	0...3,25	0...3,25	0...8,1
Protection	-25...+80	IP 67, III	-25...+80	-25...+80	-25...+80
EMC	IP 67, III	EN 60947-5-2; EN 55011 class B	EN 60947-5-2	EN 60947-5-2; EN 55011 class B	EN 60947-5-2
Housing material	EN 60947-5-2; EN 55011 class B	brass nickel-plated POCAN	PBT	brass nickel-plated CO-PC	PBT
Connection	PUR cable highly flexible / 2m; 2 x 0,14mm ²	PBT	PVC cable / 2m; 2 x 0,34mm ²	PVC cable / 2m; 2 x 0,34mm ²	PVC cable / 2m; 3 x 0,5mm ²
Wiring	Core colours BN brown BU blue BK black	PUR/PVC cable / 2m; 2 x 0,34mm ²	PVC cable / 2m; 2 x 0,34mm ²	PVC cable / 2m; 2 x 0,34mm ²	PVC cable / 2m; 3 x 0,5mm ²

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
14219	IE5262/IEB3001-BPKG	IFM	Proximity Switch-Inductive-Vin:10~30Vdc , DC-3 Liner Output	M8-Metal Thread	1mm	NO PNP-Overload Circuit Protection
5055	IE5267/IEB3001-BPKG	IFM	Proximity Switch-Inductive-Vin:10~30Vdc , DC-3 Output	M8-Metal Thread	1mm	NO PNP-Overload Circuit Protection
20480	IE5270/IEB21.5-AROG/PH	IFM	Proximity Switch-Inductive	M8-Metal Thread	1.5mm	normally open
14217	IF5597/IF-2004-FRKG	IFM	Proximity Switch-Inductive-Vin:10~55Vdc , DC Dual Outputs	M12*1-Plastic thread	4mm	NO,NC,NPN,PNP DC quadronorm-Overload Circuit Protection
41715	IF5718 IFC2004-ARKG/UP		Orange Proximity Switch-Inductive	PBT	4	NO NPN /PNP- Overload Circuit Protection
4358	IF5719/IFB2004-ARKG/UP		Proximity Switch-Inductive-No Polar-Vin:10~36Vdc , DC	M12-Metal Thread	4mm	NO NPN /PNP-Overload Circuit Protection
41714	IF5843 IFC2004-ARKG/UP		Orange Proximity Switch-Inductive	PBT	4	NO NPN /PNP- Overload Circuit Protection
4359	IG5287/IGB3008-ANKG		Proximity Switch-Inductive-Vin:18~36Vdc , DC 三 Output	M18-Metal Thread	8mm	NO NPN-Overload Circuit Protection
4850	IG5715/IGB2008-ARKG/UP	IFM	Proximity Switch-Inductive-No Polar	M18-Metal Thread	8mm	NO/ NPN,PNP-Overload Circuit Protection
16074	I15272		Proximity Switch-Inductive-DC PNP	M30*1.5	10mm	

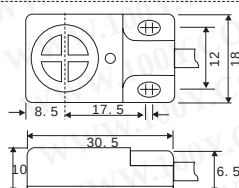


SB-05N
SB-05P2



SJ2-M8EN45-DZS

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
10988	SB-05N		Proximity Switch-Inductive-10~30Vdc	29*18*18mm	5mm	NPN
10985	SB-05P2		Proximity Switch-Inductive-10~30Vdc	29*18*18mm	5mm	PNP
24922	SJ2-M8EN45-DZS	Pulsotroni	M8 Proximity Switch-Inductive		2mm	DC10~30V



KEY SPECIFICATIONS:

- Model
- SP-05N: NPN, Vertical
- SP-05P: PNP, Vertical
- Sensing distance: 5.0mm
- Mounting method: Non-flushed
- Operating voltage: 10~30VDC
- Response frequency: 800KHZ

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
10987	SP-05N	FOTEK	Proximity Switch-Inductive-10~30V	35*18*18	5mm	NPN NO
10986	SP-05P		Proximity Switch-Inductive-10~30V	35*18*18	5mm	PNP NO



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Sensors & Transducers

Proximity Switch-Inductive

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OMRON

Subminiature, FLat-Pack DC Sensor Fits Tight Spaces

- Watertight construction conforms to IP67
- Space-saving Mounting area, as small as 10 x 27mm (0.39 x 1.06 in), is ideal for conveyor wall mounting
- Mounts directly onto metal base or rail
- Rugged diecast metal or low-profile plastic housing models available
- Choose NPN or PNP output models
- Ready to use: Prewired with 2m (6.56 ft) length cable and mounting bracket included with TL-W3M sensors

ITEM	TL-W3MC1
Consume current	DC24V >15mA no burthen
Working environmental temperature	-25~+70°C (no ice over)
Working environmental humidity	35~95%RH
Weight	About 30g

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
14575	TL-W3MC1	OMRON	Proximity Switch-Inductive	10*27*6mm	3mm±10%	NPN

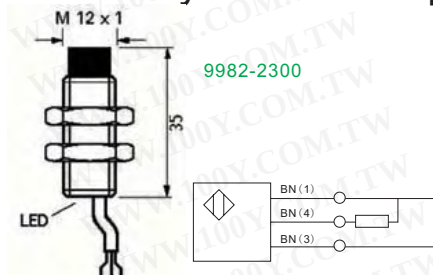


ITEM	DC Type	AC Type
Working voltage	10~30VDC	90~250VAC
Consume current	15mA max	2mA max
Output current	150mA max	3~200mA
Working temperature	-20 to 70°C	
Cable length	2N	

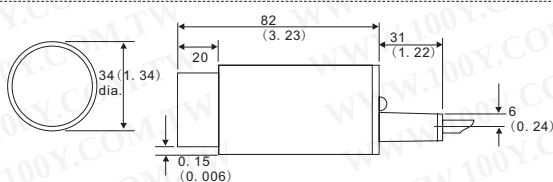
Part No.	Product No.	Manufacturer	Description	Sensing Distance
48064	TP-SM5N1	TEND	TEND_Prismatic-proximity switches	5MM

Proximity Switch-Capacitive

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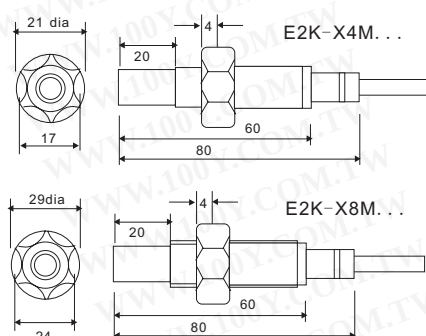
Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
30621	9982-2300	Pulsotroni	Pulsotronic_Proximity Switch-Inductive	4.0mm		
17679	APS-70-6N	KOYO	Proximity Switch-Capacitive	M3*6*34.5	3mm	NPN



Part number	E2K-C25ME1
Sensor type	Capacitive
Supply voltage	10 to 40 VDC, 10% max. Permissible ripple peak to peak
Current consumption	10 mA max. at 12 VDC 15 mA max. at 24 VDC
Detectable object type	Metallic and non-metallic objects
Mounting	Bracket Y92E-A34 included
Weight with cable	Approx. 200 g (7.0 oz.)
Ambient operating temperature	-25° to 70°C (-13° to 158°F)
Vibration	10 to 55 Hz, 1.5 mm (0.06 in) double amplitude
Shock	Approx. 50 G's

- Permits non-contact detection of metallic and non-metallic objects such as glass, wood, water, oil and plastic
- Allows indirect detection of materials inside non-metallic containers
- Adjustable detecting distance from 3 to 25 mm
- Built-in amplifier accepts wide range of supply voltages and switches up to 200 mA
- Mounting bracket included

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
17125	E2K-C25ME1	OMRON	Proximity Switch-Capacitive	φ34	3~25mm	AC-3 Conductive NPN ON



Model	E2K-X4ME(F)	E2K-X8ME(F)
Current consumption	15 mA	15 mA
Control output	200 mA	10 to 200 mA
Sensitivity	Fixed	
Circuit protection	Reverse connection protection, surge absorber	Surge absorber
Differential travel	4% to 20% of sensing distance	

- Detects almost any kind of metallic and nonmetallic objects, including glass, lumber, water, oil, and plastic.
- Three choices of threaded cylinder sizes for easy installation: M12, M18, and M30
- All models equipped with an LED indicator for operation monitoring. Fixed sensing distance requires no sensitivity adjustment.

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
19122	E2K-X4ME1	OMRON	Proximity Switch-Capacitive	M12	4mm	NPN 3*AC
29297	E2K-X8ME1	OMRON	Proximity Switch-Capacitive	M18	8mm	NPN 3*DC



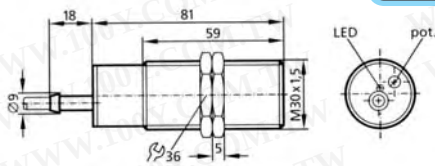
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46-04

Proximity Switch-Capacitive

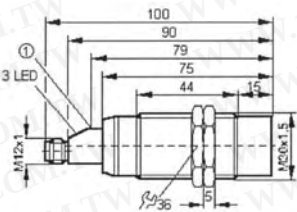


Electrical design	DC PNP/NPN
Output	normally open / closed programmable
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Minimum load current [mA]	5
Voltage drop [V]	< 4,6
Leakage current [mA]	< 0,7
Real sensing range [mm]	15 ±10%
Operating distance [mm]	0...12,1
Operating temperature [°C]	-25...+80
Protection	IP 65
Housing material	PBTP
Connection	PUR/PVC cable / 2m; 2 x 0,5mm²
Wiring Core colours BK black WH white	

Part No.	Product No.	Manufacturer	Description	Size	Sensing Distance	Output
18795	KI-2015-FRKG	IFM	Proximity Switch-Capacitive	M30*1.5	15mm	normally open / closed programmable

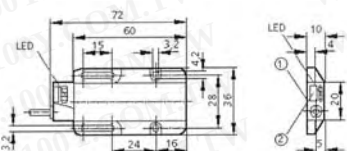


Part No.	Product No.	Description
12847	KI-3015-ANKG	Proximity Switch-Capacitive



Supply voltage	10 to 36 VDC
Maximum Load Current	250 mA
Supply Current	<30 mA
Voltage Drop	<2.5 V
Switching frequency	5 Hz
Short Circuit Protection	Yes
Reverse Polarity Protection	Yes
Status Indication	Yellow LED: Output Green LED: Power Red LED: Marginal Signal
Protection Rating	NEMA 3, 4, 6, 12, 13. IP 67
Ambient temperature	-13 to 176 F (-25 to 80 °C)
Housing Material	Nickel-plated brass, Polybutyleneterephthalate
Connector	Micro DC

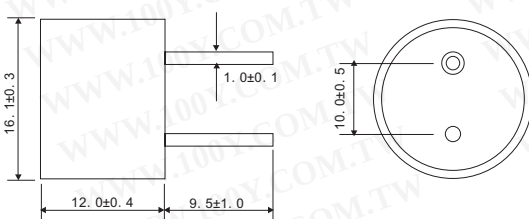
Part No.	Product No.	Manufacturer	Description
14488	KN5101	IFM	Proximity Switch-Inductive



Supply voltage	10 to 36 VDC
Maximum Load Current	150 mA
Supply Current	<30 mA
Voltage Drop	<2.5 V
Switching frequency	5 Hz
Short Circuit Protection	Yes
Reverse Polarity Protection	Yes
Status Indication	Yellow LED: Output Green LED: Power Red LED: Marginal Signal
Protection Rating	NEMA 3, 4, 6, 12, 13, IP 67
Ambient temperature	-13 to 176 F (-25 to 80 °C)
Housing Material	Polycarbonate, Polybutyleneterephthalate

Part No.	Product No.	Manufacturer	Description
12848	KN5104	IFM	Proximity Switch-Capacitive

Proximity Switches–Ultrasonic



PARTS NUMBER	40T-16	40R-16
Center frequency (kHz)	40.01.0kHz	40.01.0kHz
Sound pressure level (0dB=0.0002μbar)	≥119dB	_____
Beam angle -6dB	55°	
Driving voltage (RMS)	30V	
Working temperature (°C)	-30~80	

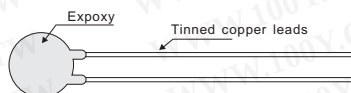
Part No.	Product No.	Description
9954	40T/R-16F	Ultrasonic Sensors



Sensors & Transducers

Thermistors & Temp. Sensors I. Cs NTC Thermistors

Detailed product specifications are available on: us.100y.com.tw



Part No.	Nominal Resistance at 25°C (ohms)	Beta Value (°K)	Max. Permissible Current at 25°C (mA)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (sec)
TDC05C250	5000	4100	45	6	15
TDC05D350	50000	4400	20	6	18
TDC05D410	100000	4400	15	6	16

Part No.	Product No.	Manufacturer	Description	Oper. Temp. Range
13095	RNT0310K0J		Termistor 3 μ 10K Ω	
12335	RNT0510K0J	UEI	Termistor 5 ϕ 10K Ω	-20°C~+125°C
12337	TDC05C250L	UEI	Termistor 5 ϕ 5K Ω	-20°C~+125°C
12336	TDC05D350L	UEI	Termistor 5 ϕ 50K Ω	-20°C~+125°C
12334	TDC05D410L	UEI	Termistor 5 ϕ 100K Ω	-20°C~+125°C

Platinum Pt100, Pt500 & Pt1000 Sensors

Detailed product specifications are available on: us.100y.com.tw

SPECIFICATION

Recomendable Operating Temperature: -40 to +400 deg. C

Class: 1/3B, A and B

Mesuring Current: Max 2mA

Material of leads: Gold plated Nickel, 0.15Wx0.25Hx12mmL



Part No.	Product No.	Manufacturer	Description	Resistance Value	Class	W*L*T(mm)
28632	CRZ-1632-100	HAYASHI DENKO	CRZ Platinum Thin Film Pt100 Resistance Thermometer Element	Pt100	1/3B	1.6x3.2x1.0mm
40675	CRZ-2005-100	HAYASHI DENKO	CRZ Platinum Thin Film Pt1000 Resistance Thermometer Element	Pt100	A	2.0*5.0*1.0mm
38933	CRZ-2005-1000	HAYASHI DENKO	CRZ Platinum Thin Film Pt1000 Resistance Thermometer Element	Pt1000	2B	2.0*5.0*1.0



Temperature range: -55°C to +150°C

FEATURES

- exactitude
- High stability
- Small fixed dimensions
- Plastic Package

Part No.	Product No.	Description
38934	HEL-777-A	Temperature Sensors



Temperature metre range: glass style (-20°C~350°C)

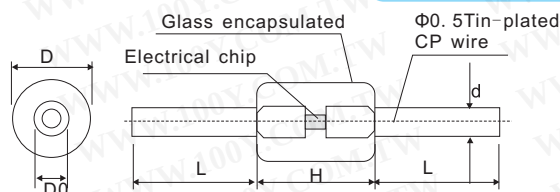
Part No.	Product No.	Description	Resistance Value
16991	PT-100	Platinum Pt100 Sensor	PT-100



Part No.	Product No.	Description	Resistance Value
36187	PT-100	Platinum Pt100 Sensor	PT-100

Tks_ NTC Thermistor for Sensors

Detailed product specifications are available on: us.100y.com.tw



ITEM	D	H	d	L	D0
Max	2	4	0.52	29	0.9
Min	---	---	0.48	27	0.7

Part No.	Product No.	Manufacturer	Description	Type	Res. At 25°C	Oper. Temp. Range	Res. At 50°C	Res. At 85°C
19712	DHT0A103J3472NY	Tks	NTC Thermistor for Sensor	DHT0A-103R	10K Ω ±5%	-40~+200°C		1.4231K Ω
41372	DHT0A103J34D2NY	Tks	DHT0A103J34D2S SGS	DHT0A-103T	10K Ω ±5%	-40~+200°C	4.1623K Ω	1.4513K Ω
19716	DHT0A103J34D2S	Tks	NTC Thermistor for Sensor	DHT0A-103T	10K Ω ±5%	-40~+200°C		1.4513K Ω
19715	DHT0A503J3952S	Tks	NTC Thermistor for Sensor	DHT0A-503R	50K Ω ±5%	-40~+200°C		5.4334K Ω



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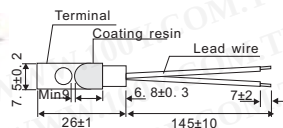
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Sensors & Transducers

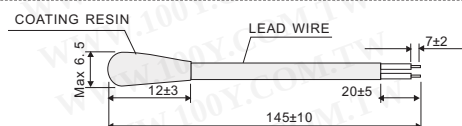
Tks_ NTC Thermistor for Sensors

Detailed product specifications are available on: us.100y.com.tw

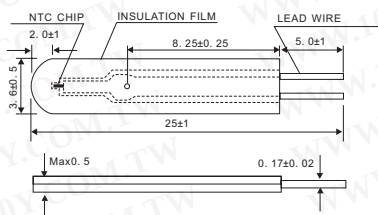


Parameter	Symbol	Test Conditions	Min.	Nor.	Max.	Unit.
Resistance At 25°C	R25	Ta=25°C±0.1°C I<0.5mA	0.095	0.1	0.105	KOHM
Resistance At 50°C	R50	Ta=50°C±0.1°C I<0.5mA	---	3.497	---	KOHM
R25 / R50	K	---	---	2.859	---	---
B Constant	B	(8876 Log K)	3040	3200	3360	K
Thermal Dissipation Constant	C	Ta=25°C±0.1°C	---	20	---	mW/°C
Thermal Time Constant	τ	Ta=25°C±0.1°C	---	19	---	Sec
Hi-Pot Test	---	1000V AC 3 sec	---	---	10	mA

Part No.	Product No.	Manufacturer	Description	Type	Res. At 25°C	Oper. Temp. Range	Res. At 50°C	Terminal	Res. At 85°C
19695	NTSA0100JG001	Tks	NTC Thermistor for Sensor	TSA-010	10Ω±5%	-10~105°C	3.497KΩ	SQNB5-3.7	
19702	NTSA0101JG001	Tks	NTC Thermistor for Sensor	TSA-101	100Ω±5%	-10~105°C	3.497KΩ	SQNB5-3.7	
41371	NTSA0103JZ100	Tks	NTSA0103JZ100 SGS	TSA-103	10KΩ±5%	-20~105°C	3.496KΩ		SQNB5-3.7
19701	NTSA0500JG001	Tks	NTC Thermistor for Sensor	TSA-050	15Ω±5%	-10~105°C	3.497KΩ	SQNB5-3.7	
19703	NTSA0501JG001	Tks	NTC Thermistor for Sensor	TSA-501	500Ω±5%	-10~105°C	3.497KΩ	SQNB5-3.7	
19704	NTSAA103JG009	Tks	NTC Thermistor for Sensor	TSA-103	10KΩ±5%	-10~105°C	3.497KΩ	SQNB5-3.7	



Part No.	Product No.	Manufacturer	Description	Type	Res. At 25°C	Oper. Temp. Range	Res. At 50°C
19705	NTSE0102JG002	Tks	NTC Thermistor for Sensor	TSB-102	1KΩ±5%	-20~85°C	0.373KΩ
19710	NTSE0102JG004	Tks	NTC Thermistor for Sensor	TSE-102	1KΩ±5%	-20~85°C	0.373KΩ
19707	NTSE0103JG024	Tks	NTC Thermistor for Sensor	TSB-103	10KΩ±5%	-20~85°C	3.496KΩ
19711	NTSE0103JG057	Tks	NTC Thermistor for Sensor	TSE-103	10KΩ±5%	-20~85°C	3.496KΩ
41393	NTSE0103JZ238	Tks	NTSA0103JZ100 SGS	TSE-103	10KΩ±5%	-20~85°C	3.496KΩ
19708	NTSE0104JG003	Tks	NTC Thermistor for Sensor	TSB-104	100KΩ±5%	-20~85°C	31.927KΩ
19709	NTSE0501JG001	Tks	NTC Thermistor for Sensor	TSE-501	0.5KΩ±5%	-20~85°C	0.191KΩ
19706	NTSE0502JG020	Tks	NTC Thermistor for Sensor	TSB-502	5KΩ±5%	-20~85°C	1.794KΩ

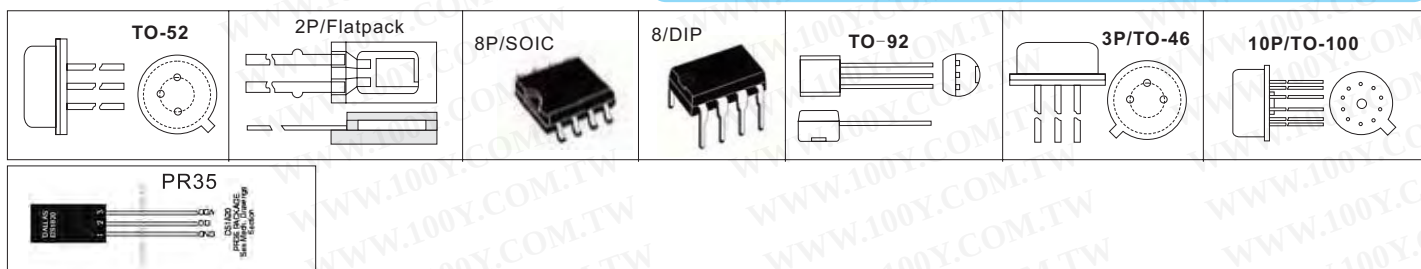


Parameter	Symbol	Test Conditions	Min.	Nor.	Max.	Unit.
Resistance At 25°C	R25	Ta=25°C±0.05°C P<20μW	9.5	10	10.5	KΩ
Resistance At 85°C	R85	Ta=85°C±0.05°C P<20μW	---	1.451	---	KΩ
R25 / R85	K	---	---	6.892	---	---
B Constant	B	(1779.707 Ln K)	3332	3435	3538	K
Thermal Dissipation Constant	σ	Ta=25°C±0.5°C	0.7	---	---	mW/°C
Thermal Time Constant	τ	Ta=25°C±0.5°C	---	---	5	Sec
Insulation Test	---	100V DC 1 min	---	---	---	mΩ

Part No.	Product No.	Manufacturer	Description	Type	Res. At 25°C	Oper. Temp. Range	Terminal	Res. At 85°C
19717	TTF3A103J34D3AY	Tks	NTC Thermistor for Sensor	TTF-103	10KΩ±5%	-40~+100°C	J093A103J34D3 with Teflon Film	1.451KΩ

Temperature Sensors I.Cs

Detailed product specifications are available on: us.100y.com.tw



Part No.	Product No.	Manufacturer	Description	Pins/Package
624	AD590JH	ADI	2 Wire current output temperature transducer	3/TO-52
6561	AD590JH	Intersil	2 Wire current output temperature transducer	3/TO-52
14491	AD590KF	ADI	Temperature Transducer IC.	2P/Flatpack
32335	AD590KH	ADI	Two-Terminal IC Temperature Transducer	3/TO-52
45282	AD590KRZ	ADI	Two-Terminal IC Temperature Transducer	8P/SOIC
32337	AD592AN	ADI	Low Cost, Precision IC Temperature Transducer	3P/TO-92
32346	AD597AH	ADI	Thermocouple Conditioner and Setpoint Controller	10P/TO-100
39686	DS1620	DALLAS	Digital Thermometer and Thermostat	8P-DIP
33020	DS1820	DALLAS	1-Wire Digital Thermometer	PR35
42924	DS1833-5	DALLAS	5V EconoReset	TO-92
33021	DS18B20	DALLAS	Programmable Resolution 1-Wire Digital Thermometer	3P/TO-92



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Sensors & Transducers

Temperature Sensors I.Cs

Detailed product specifications are available on: us.100y.com.tw

Part No.	Product No.	Manufacturer	Description	Pins/Package
33025	DS18S20	DALLAS	High Precision 1-Wire Digital Thermometer	3P/TO-92
43993	LM135AH	N.S	Precision Temperature Sensors	TO-46
34658	LM135H	N.S	Precision Temperature Sensors	TO-46
40798	LM235AH	N.S	Precision Temperature Sensors	3P/TO-46
43995	LM235H	N.S	Precision Temperature Sensors	3P/TO-46
18502	LM335AH	N.S	Precision Temperature Sensors	3P/TO-46
6562	LM335Z	N.S	Volt. Mode temperature sensor	3/TO-92
44026	LM34CH	N.S	Prec. F temp. sensor	TO-46
44024	LM34DH	N.S	Prec. F temp. sensor	TO-46
4007	LM34DZ	N.S	Prec. F temp. sensor (-40°F to +230°F)	3P/TO-92
44027	LM35CAH	N.S	Precision Centigrade Temperature Sensors	TO-46
34436	LM35CZ	N.S	Precision Centigrade Temperature Sensors	TO-92
44028	LM35DH	N.S	Precision Centigrade Temperature Sensors	TO-46
16165	LM35DZ	N.S	Precision Centigrade Temperature Sensor	3/TO-92
7360	LM3911N	N.S	Temperature controller	8/DIP
41126	LM75C1MM-3	N.S	Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	MSOP-8
11557	LT1025CN8	Linear-Tech.	Micropower Thermocouple Cold Junction Compensator	8/DIP

Temperature Switches

Detailed product specifications are available on: us.100y.com.tw



- Isolated material: colophony
- Contact material: silver meta Thick: 0.3mm
- Insolated resistance: >DC 500V 100M Ω

Part No.	Product No.	Description	Y/N	Endure Voltage(V)	endure current(A)	OFF temperature	ON temperature
12080	3PN234-85A	Thermal Switches		AC120V/AC240V	15A/10A	85	75
14428	3PN244-80A	Thermal Switches	Y(Automatic)	AC120V AC240V	15A 10A	80	70
14429	3PN244-91A	Thermal Switches	Y(Automatic)	AC120V AC240V	15A 10A	91	81
14427	3PN265-090-60A	Thermal Switches	Y(Automatic)	AC120V 15A/AC240V 10A	15A/10A	60	50



Part No.	Product No.	Description	Y/N	OFF temperature	ON temperature
11290	5112E	Thermal Switches	NO	90°C	80°C
11291	5112F	Thermal Switches	NO	100°C	90°C
12885	5112G	Thermal Switches	NO	110°C	90°C



Part No.	Product No.	Description	Y/N	OFF temperature	ON temperature
48340	5112I	Thermal Switches	NO	130°C	110°C
38930	5112L	Thermal Switches	NO	50°C	60°C



- Isolated material: colophony
- Contact material: silver meta Thick: 0.3mm
- Insolated resistance: >DC 500V 100M Ω

Part No.	Product No.	Description	Y/N	Endure Voltage(V)	endure current(A)	OFF temperature	ON temperature
14443	5N235-090-105/M	Thermal Switches	Y(Manual)	AC120V AC240V	15A 10A	115	105
14444	5N255-090-110/M	Thermal Switches	Y(Manual)	AC120V AC240V	15A 10A	125	110



- Act temperature: 50°C~175°C (UL/CUL 205°C)
- Inner resistance: <50mΩ
- Working temperature: 220°C (PPS)
- Weight: 5.2g MAX

Part No.	Product No.	Description	Y/N	Endure Voltage(V)	endure current(A)	OFF temperature	ON temperature
33115	T24A050ABF2-15	Thermal Switches	Y(Automatic)	AC250V AC125V AC250V	16A 15A 10A	50	35
28881	T24A091ASR2-10-U	Thermal Switches	Y(Automatic)	AC120V AC240V	15A 10A	91	81
29396	T24M105BBF2-M7	Thermal Switches	Y(Automatic)	AC250V AC125V AC250V	16A 15A 10A	105+2-3	-5 +- 15



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Sensors & Transducers

Protector for Pack Battery



- Temperature range: 45~120°C
- accurate temperature: (±5) , (±10/-5) °C
- Load current: 3~12A (at 25°C)
- Contact resistance: <25mΩ

Detailed product specifications are available on: us.100y.com.tw

- Max short circuit current: DC12V/100A
- Min electrify current: DC5V/10mA
- Application Spec: DC 18V/DC 24V

Part No.	Product No.	Description	Off Temperature
33773	AT0040430030	IP405B200S Protective Switch of automatic temperature induction	80°C
33770	AT0040430055	IP405B200S Protective Switch of automatic temperature induction	70°C
33772	AT0040430139	IP405B200S Protective Switch of automatic temperature induction	75±10-3°C
33769	AT0041400049	AT100PW Protective Switch of automatic temperature induction	50±5°C
48486	AT0041550004	AT100PW Protective Switch of automatic temperature induction	100±5°C
33775	AT0041560025	AT100PW2 Protective Switch of automatic temperature induction	100°C
48487	AT0041560029	AT100PW Protective Switch of automatic temperature induction	100±5°C
48488	AT100PW	AT100PW Protective Switch of automatic temperature induction	100±5°C

Humidity sensors



ALH series important features

- High resistance to a water
- Low cost performance
- Long term stability
- Very low hysteresis
- Fast response time
- Small dimention
- Wide humidity operating range

Typical applications

- Air-conditioner
- Automobile
- Humidifier-Dehumidifier
- Clean room
- Food products
- Humidity controller & Transmitter

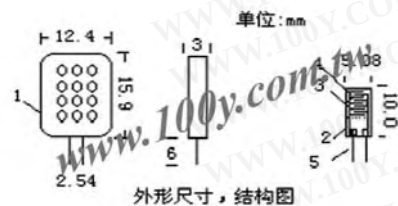
Detailed product specifications are available on: us.100y.com.tw

Part No.	Product No.	Description	Humidity Range(%RH)	Hysteresis(%RH)
24071	ALH-3ES	Humidity Sensor	95%RH	±2%RH



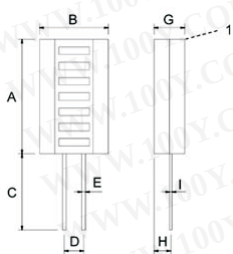
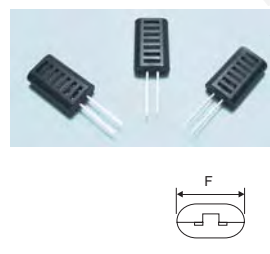
- Supply voltage: AC5V (max)
- Supply power: AC5mW (max)
- Working temperature: 0~60°C
- Working humidity: 20~95%rh
- Reserve temperature: -20~95°C

Part No.	Product No.	Manufacturer	Description	Humidity Range(%RH)
27749	C5-M3	SHINYEI	Humidity Sensor	20~90%RH



- Working voltage: 1V AC (50Hz~2K Hz)
- Examine range: 20%~90% RH
- Examine precision: ±5%
- Working temperature range: 0°C~+85°C
- Max working temperature: 120°C *
- Respond time: ≤1% RH

Part No.	Product No.	Description	Humidity Range(%RH)	Hysteresis(%RH)
41756	HCR01-23	Humidity sensor	20%~ 90% RH	≤ 1.5%RH
41758	HCR01-31	Humidity sensor	20%~ 90% RH	≤ 1.5%RH
41759	HCR01-65	Humidity sensor	20%~ 90% RH	≤ 1.5%RH



Symbol	Specification
A	15
B	9
C	12±2
D	2.5
E	0.5
F	5
G	4
H	2
I	0.25

	Units	Min.	Typ.	Max.
Rated voltage	Vrms	-	1	-
Rated power	mA	-	-	0.2
Operating frequency range	kHz	0.5	1	2
Operating temperature range	°C	0	-	60
Operating humidity range	%RH	-	-	90
Impedance range at 60%RH and 25°C**	kΩ	23.2	-	42.0
Humidity accuracy	%RH	-3	-	+3
Hysteresis (40%RH~80%RH)	%RH	-	-	2
Temperature dependence(reference)	%RH/°C	-	0.6	-

Part No.	Product No.	Description	Humidity Range(%RH)	Hysteresis(%RH)
28496	HCZ-H6	Humidity module Sensor	90%RH	2%RH
48267	HCZ-H8A	Humidity sensor (Pb Free)	90%RH	2%RH



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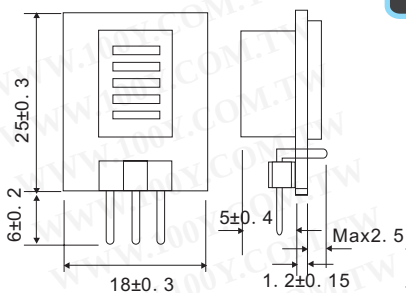
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Sensors & Transducers

Humidity sensors

Detailed product specifications are available on: us.100y.com.tw



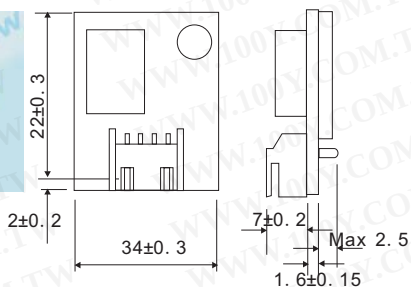
FEATURES

Wide humidity operation range
Linear DC Output
Easy operation
Long-term stability
Small and economical

APPLICATION

Air condition, humidifier, Dehumidifier.
Humidity controller, Humidity transmitter.
Hygrometer, Hygro-recorder.
Copying machine.
Clock, Weather-forecast barometer.

Part No.	Product No.	Description	Humidity Range(%RH)
32754	HMZ-333A	Temp. & Humidity Transmitter Module(Pb Free)	0~60℃ 95%RH



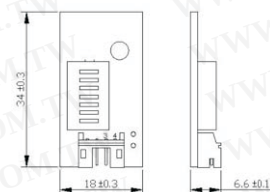
FEATURES

Wide humidity operation range
Linear DC Output
Easy operation
Long-term stability
Small and economical

APPLICATION

Air condition, humidifier, Dehumidifier.
Humidity controller, Humidity transmitter.
Hygrometer, Hygro-recorder.
Copying machine.
Clock, Weather-forecast barometer.

Part No.	Product No.	Description	Humidity Range(%RH)
32758	HMZ-433AL	Temp. & Humidity Transmitter Module(Pb Free)	0~60℃ 95%RH



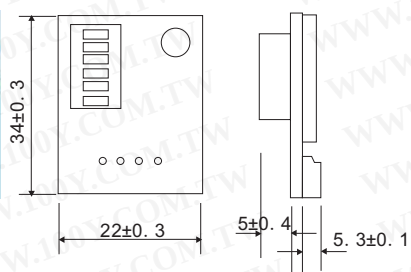
FEATURES

Wide humidity operation range
Linear DC Output
Long-term stability
Small and economical

Application

Air condition ,humidifier, Dehumidifier.
Humidity controller, Humidity transmitter.
Hygrometer, Hygro-recorder.
Copying machine.
Clock ,Weather-forecast barometer.

Part No.	Product No.	Description	Humidity Range(%RH)
48266	HMZ-433BY	Temperature & Humidity Transmitter Module	0~60℃ 95%RH



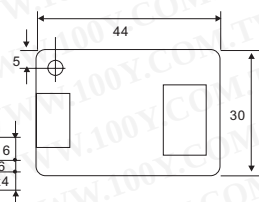
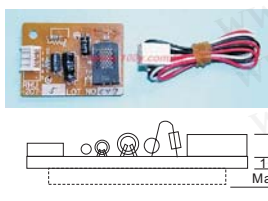
FEATURES

Wide humidity operation range
Linear DC Output
Easy operation
Long-term stability
Small and economical

APPLICATION

Air condition, humidifier, Dehumidifier.
Humidity controller, Humidity transmitter.
Hygrometer, Hygro-recorder.
Copying machine.
Clock, Weather-forecast barometer.

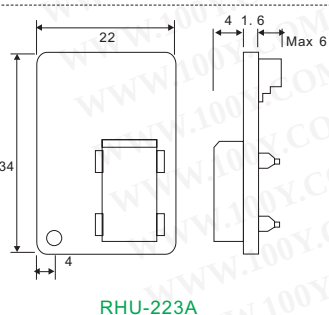
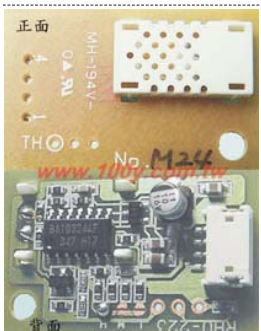
Part No.	Product No.	Description	Humidity Range(%RH)
49046	HMZ-435CH	Temperature & Humidity Transmitter Module	0~60℃ 95%RH



SPECIFICATIONS:

Supply voltage: 5VDC ±5%
Consumption: 5mA Less (approx 2mA)
Temperature output signal: resistance output
R (25℃) = 50KΩ±3%, B (100/0℃) = 3970±2%
Storage: -20 to +85℃, 95%RH Less
Operating range: 0 to 60℃, 90%RH Less

Part No.	Product No.	Manufacturer	Description	Humidity Range(%RH)
10176	RHU-207-5	SHINYEI	Humidity Transmitter Module	0~60℃ 20~90%RH



RHU-223A

Feature

Wide humidity operating range
Linear DCV output
Easy operation
Long-term stability
Small and economical

Application

Air-conditioner, Humidifier, Dehumidifier
Humidity Controller, Humidity Transmitter
Hygrometer, Hygro-recorder
Copying machine
Clock, Weather-forecast barometer

Part No.	Product No.	Manufacturer	Description	Humidity Range(%RH)
27750	RHU-223A	SHINYEI	Humidity Transmitter Module	-20~60℃ 20~90%RH



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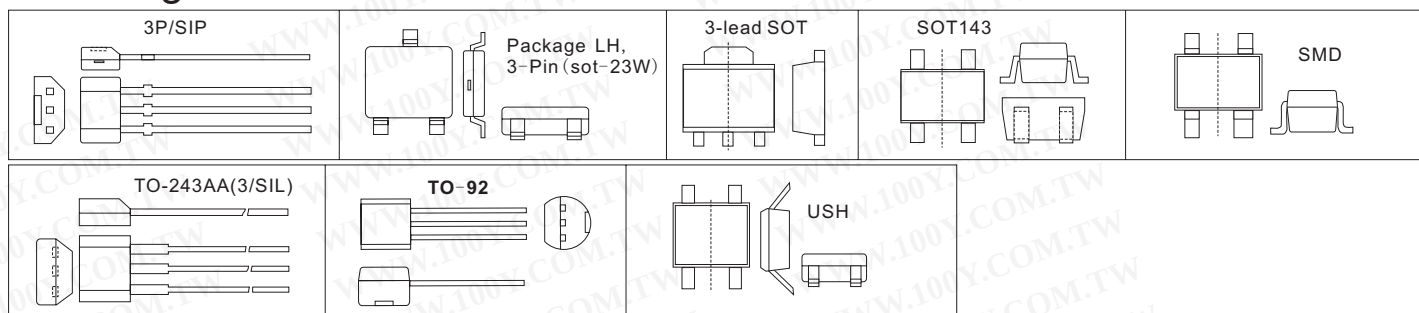
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Sensors & Transducers

Hall Effect Devices

Latching Hall Effect Switch IC

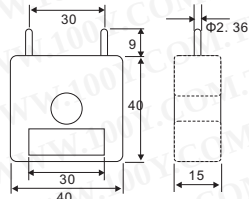
Detailed product specifications are available on: us.100y.com.tw



Part No.	Product No.	Manufacturer	Description	Temp.	Package
45267	A1104EUA-T	Allegro	Sensitive hall-effect switches for high-temperature operation	-40°C~85°C	3P/SIP
45268	A1104LUA-T	Allegro	Sensitive hall-effect switches for high-temperature operation	-40°C~150°C	3P/SIP
37944	A1301EUA	Allegro	Continuous-Time Ratiometric Linear Hall Effect Sensors	-40°C to +85°C	SIP
37943	A3141EUA	Allegro	Sensitive Hall Effect Switches for High-Temperature Operation	-40°C to +85°C	SIP
8451	A3143EUA	Allegro	Hall Effect Switch. Bop 350 Gauss max. Brp 330 Gauss max.	-40°C to 85°C	3-pin SIP
8825	A3144LLT	Allegro	Latching Hall Effect Switch IC	-40°C to 150°C	3-lead SOT
37945	A3507SUA	Allegro	RATIOMETRIC, LINEAR HALL-EFFECT SENSORS	-20°C to +85°C	SIP
37895	DN6849	Panasonic	Hall IC	-40 to +100°C	SIP
37897	DN6849SE	Panasonic	Hall IC	-40 to +100°C	SIP
37901	DN6849TE	Panasonic	Hall IC	-40 to +100°C	SIP
28318	DN6851D	Panasonic	Panasonic_Hall IC		3-SIP
28316	HW101A	AsahiKASEI	AsahiKASEI_HALL ELEMENT		SOT143
37859	HW108A	AsahiKASEI	High-sensitivity InSb Hall element	-40 to +110 °C	SOT143
37863	HW300B	AsahiKASEI	InSb Hall element	-40 to +110 °C	SIP
37882	HW302B	AsahiKASEI	InSb Hall element	-40 to +110 °C	SIP
37881	HW305B	AsahiKASEI	InSb Hall element	-40 to +110 °C	SIP
37923	THS119	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	SIP
37924	THS121	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	SMD
37930	THS122	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	USH
37922	THS123	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	SIP
37929	THS124	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	SMD
37932	THS125	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	USH
37919	THS126	TOSHIBA	High stability motor control. digital tachometer. crank shaft position sensor	-55 to +125°C	SIP
37916	THS130	TOSHIBA	High stability motor control. digital tachometer	-55 to +125°C	SIP
15678	UGN3120UA	Allegro	Sensitive hall-effect switch for high-temperature operat	-20°C to 85°C	TO-243AA(3/SIL)
15677	UGN3140UA	Allegro	Sensitive hall-effect switch for high-temperature operat	-20°C to 85°C	TO-243AA(3/SIL)
37937	US3881	Melexis	CMOS Low Voltage Hall Effect Latch	-40°C to 125°C	TO-92
37938	US5881	Melexis	COMS Multi-Purpose Switch	-40°C to 150°C	TO-92
37941	US79	Melexis	CMOS Power Hall IC	-40°C to 125°C	TO-92

Current Transducers

Detailed product specifications are available on: us.100y.com.tw



CTL-12-S30-10Z

- Type: CTL-12-S30-10Z
- Working temperature: -20°C~+75°C
- Reserve temperature: -30°C~+90°C
- Weight: 50g

A: CTL-12-S36-10 B: CTL-12-S36-8 C: CTL-12-S36-4

- Outer dimensions (mm): 40Wx40Hx15t
- Hole dia: Φ12
- Winding number (Turn): A: 1000 B: 800 C: 400
- Max. continuous current: A: 240A B: 220A C: 200A
- Max. Output voltage (non-saturated): A: 13V B: 8V C: 5V
- Current range: A: 0.1A~280A B: 0.1A~180A C: 0.1A~120A

CTL-12-S56-10

- Rating current: 0.1~300Arms (50/60Hz)
- Working temperature: -20°C~+75°C
- Reserve temperature: -30°C~+90°C
- Weight: 65g

CTL-12-S56-4

- Insulated resistance: 500Vdc >100MΩ
- Working temperature: -20°C~75°C
- Reserve temperature: -30°C~85°C

Part No.	Product No.	Manufacturer	Description	Type
39731	CTL-12-S30-10Z	U_RD	Current Transducers	CTL-12-S30-10Z
39152	CTL-12-S36-10	U_RD	Current Transducers	CTL
18242	CTL-12-S36-4	U_RD	Current Transducers	CTL
39151	CTL-12-S36-8	U_RD	Current Transducers	CTL
17448	CTL-12-S56-10	U_RD	Current Transducers	CTL Type
18241	CTL-12-S56-4	U_RD	Current Transducers	CTL



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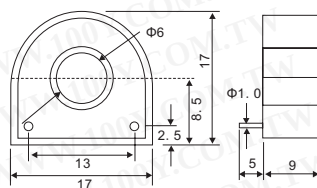
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Shenzhen: 100y@163.com

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Sensors & Transducers

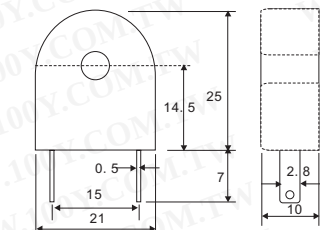
Current Transducers

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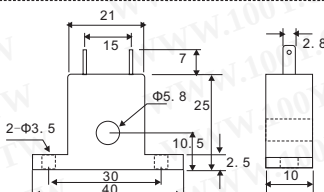
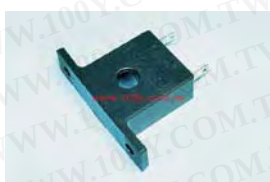
- Working temperature: $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Reserve temperature: $-30^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Weight: 5g

Part No.	Product No.	Manufacturer	Description	Type
48272	CTL-6-L	U_RD	Current Transducers	CTL-6-L



- Working temperature: $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Reserve temperature: $-30^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Weight: 12g

Part No.	Product No.	Manufacturer	Description
18416	CTL-6-P-H	U_RD	Current Transducers



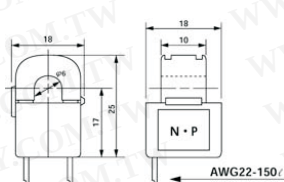
CTL-6-S-H

- Rating current: 0.1~80Arms (50/60Hz)
- Working temperature: $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Reserve temperature: $-30^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Weight: 12g

CTL-6-S-Z

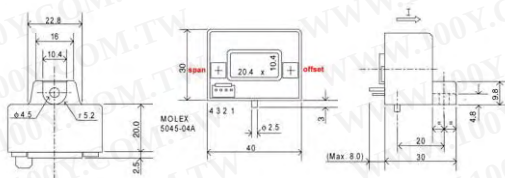
- Working temperature: $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Reserve temperature: $-30^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Weight: 13g

Part No.	Product No.	Manufacturer	Description	Type
17307	CTL-6-S-H	U_RD	Current Transducers	CT
39735	CTL-6-S-Z	U_RD	Current Transducers	CTL-6-S-Z



- Working temperature: $-20 \sim +50^{\circ}\text{C}$
- Reserve temperature: $-30 \sim +90^{\circ}\text{C}$
- Weight: 12g

Part No.	Product No.	Manufacturer	Description	Type
39541	CTL-6-S32-8F-CL	U_RD	Clamp-On CT	CT



Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 3000 V~
- Low power consumption
- Extended measuring range ($3 \times I_{PN}$)
- Insulated plastic case made of polycarbonate PBT recognized according to UL 94-V0

Advantages

- Easy mounting
- Small size and space saving
- Only one design for wide current ratings range
- High immunity to external interference.

Applications

- AC variable speed drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications.

Supply voltage ($\pm 5\%$)	$\pm 15\text{V}$
Current consumption	$\pm 15\text{mA}$
Load resistance	$> 1\text{k}\Omega$
Ambient operating temperature	$-10 \sim +80^{\circ}\text{C}$
Ambient storage temperature	$-25 \sim +80^{\circ}\text{C}$

Part No.	Product No.	Manufacturer	Description	Type
41434	HAS100-S	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HAS100-S



FEATURES

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 2500V
- Low power consumption
- Wide power supply: $\pm 12\text{V}$ to $\pm 15\text{V}$
- Primary bus bar option for 50A and 100A version for ease of connection

APPLICATIONS

- AC variable speed drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications.



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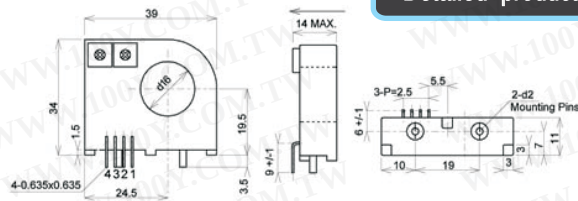
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Sensors & Transducers

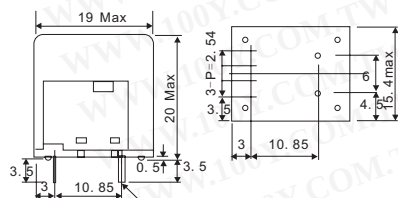
Current Transducers

Detailed product specifications are available on: us.100y.com.tw



Supply voltage ($\pm 5\%$) ²⁾	12 .. 15V
Current consumption	< 1.5mA
Load resistance	$\geq 10k\Omega$
Ambient operating temperature	-20 .. +80°C
Ambient storage temperature	-25 .. +85°C

Part No.	Product No.	Manufacturer	Description	Type
41005	HTB100-P	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HTB100-P



Supply voltage ($\pm 5\%$) ¹⁾	15V
Current consumption	< 1.5mA
Load resistance	$\geq 10k\Omega$
Ambient operating temperature	-25 .. +85°C
Ambient storage temperature	-25 .. +85°C

FEATURES

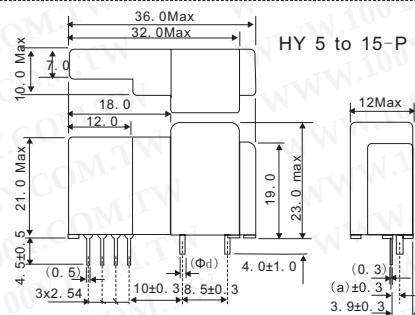
- Galvanic isolation between primary and secondary circuit
- Hall effect measuring principle
- Isolation voltage 3000V
- Low power consumption
- Extended measuring range ($3 \times I_{PN}$)
- Power supply from $\pm 12V$ to $\pm 15V$
- Insulated plastic case recognized according to UL94-V0.

APPLICATIONS

- Switched Mode Power Supplies (SMPS)
- AC variable speed drives
- Uninterruptible Power Supplies (UPS)
- Electrical appliances
- Battery supplied applications
- DC motor drives

Part No.	Product No.	Manufacturer	Description	Type
41015	HX15-P	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HX15-P

1: +15V 2: -15V
3: output 4: ground



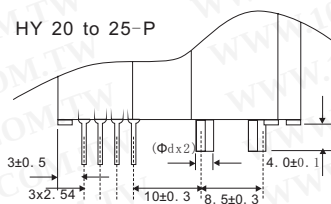
FEATURES

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 2500 V~
- Compact design for PCB mounting
- Low power consumption
- Extended measuring range ($3 \times I_{PN}$)
- Insulated plastic case recognized according to UL 94-V0.

APPLICATIONS

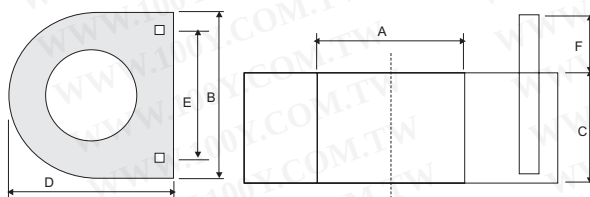
- Static converters for DC motor drives
- Switched Mode Power Supplies (SMPS).
- AC variable speed drives
- Uninterruptible Power Supplies (UPS)
- Battery supplied applications
- General purpose inverters

HY 20 to 25-P



Supply voltage ($\pm 5\%$) ⁶⁾	12. . 15V
Current consumption	< 1.0mA
Load resistance	>1kΩ
Ambient operating temperature	-10 .. +80°C
Ambient storage temperature	-25 .. +85°C

Part No.	Product No.	Manufacturer	Description	Type
8454	HY10-P	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HY10-P
26998	HY15-P	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HY15-P
9240	HY25-P	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HY25-P
17139	HY5-P	LEM	LEM_Current Transducer for Measuring of DC, AC and Pulse Current	HY-05P



Unit: mm

A	B	C	D	E	F
7.0 $\pm$ 0.1	17.0 $\pm$ 0.2	7.0max	18.0 $\pm$ 0.2	10.0 $\pm$ 0.2	4.0 $\pm$ 0.5 -0.5

Part No.	Product No.	Description	Type
40966	KZ-3 H/M PIN	Current Transducers	KZ-3 H/M



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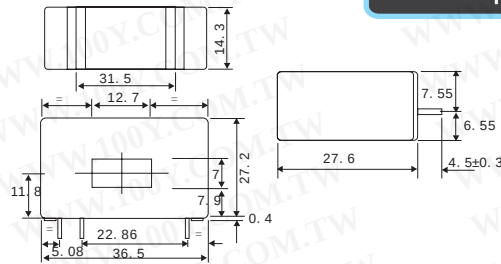
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Sensors & Transducers

Current Transducers

Detailed product specifications are available on: us.100y.com.tw



FEATURES

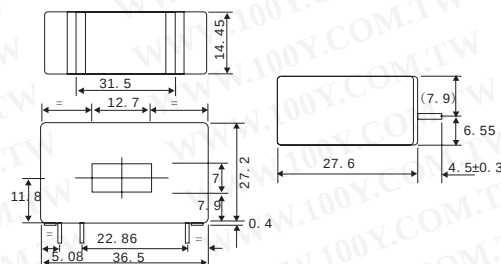
- Closed loop (compensated) current transducer using the Hall effect
- Printed circuit board mounting
- Insulated plastic case recognized according to UL 94-V0.

APPLICATIONS

- AC variable speed drives and servomotor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies(UPS)
- Switched Mode Power Supplies(SMPS)
- Power supplies for welding applications.

Supply voltage ($\pm 5\%$)	12. . 15V
Current consumption	10 (@ 1.5 V) + I_s mA
Ambient operating temperature	- 40 .. + 85°C
Ambient storage temperature	- 50 .. + 95°C

Part No.	Product No.	Manufacturer	Description	Type
41713	LA100-P	LEM	LEM_ Current Transducer for Measuring of DC, AC and Pulse Current	LA100-P



FEATURES

- Closed loop (compensated) current transducer using the Hall effect
- Printed circuit board mounting
- Insulated plastic case recognized according to UL 94-V0.

APPLICATIONS

- AC variable speed drives and servomotor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies(UPS)
- Switched Mode Power Supplies(SMPS)
- Power supplies for welding applications.

Supply voltage ($\pm 5\%$)	12. . 15V
Current consumption	10 (@ 1.5 V) + I_s mA
Ambient operating temperature	- 25 .. + 85°C
Ambient storage temperature	- 40 .. + 90°C

Part No.	Product No.	Manufacturer	Description	Type
10204	LA55-P	LEM	LEM_ Current transducer for the electronic measurement of currents : DC,AC,IMPL	LA55-P



Current (A) :100/5

Grade (VA) :1. 5

Weight: 0. 75

Part No.	Product No.	Description
18025	TCP-23	Current Transducers 100:5

Pressure Sensor

Detailed product specifications are available on: us.100y.com.tw



Temperature range:

compensate: 0°C to 50°C

Working: -40°C to +85°C

Reserve: -55°C to +125°C

Humidity: 0-100%RH (opposite humidity)

Part No.	Product No.	Description	Type
10479	SCC100DN	Pressure Sensor	SCC100DN--0~100psi(g)

- We provide a wide range of products to development and maintenance engineers in all type of business
- If you cannot find the components you want on the catalogue, please call us.



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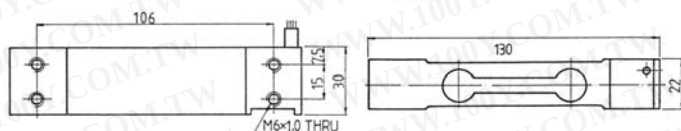
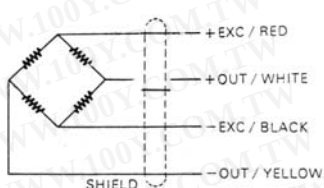
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Shenzhen: 100y@163.com

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Sensors & Transducers

Strain Sensors

Strain Sensors-Load Cells



Detailed product specifications are available on: us.100y.com.tw

MODEL	AAA	AAC
RATED OUTPUT	2.0mv/V 10%	
ZERO BALANCE	±5% OF R.O.	
CREEP ATRATED CAPACITY (20 Min)	0.015%	0.03% OF R.O.
NONLINEARITY HYSTERESIS AND REPEATABILITY	0.015%	0.03% OF R.O.
INPUT IMPEDANCE	400 ohm ± 15 ohm	
OUTPUT IMPEDANCE	350 ohm ± 3 ohm	
TEMPERATURE COMPENSATED	-10°C TO 50°C	
SAFE OVERLOADING	1 1/2 X RATED CAPACITY	
RECOMMENDED EXCITATION	10V DC OR AC	
INSULATION RESISTANCE	> 2000 MEGOHMS	
CAPACITY	3. 6. 10. 12. 15. 20. 30. 35 KGS	

Part No.	Product No.	Description	Type	Rated Output	Zero Balance	Creep Atrated Cap.
22296	LOAD CELL-AAA-45kg	45kg With Prop Stands LOAD CELL	AAA	2.0mV/V 10%	+5% of R.O.	0.015%

Gas Sensors

Gas Sensors

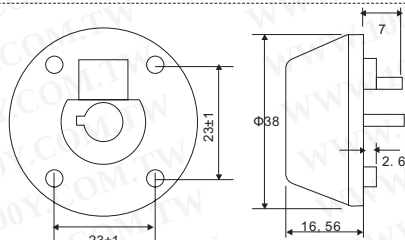
CHARACTER

Perfect design of single source double room structure by computer simulation;

- In approximate standard pressure, comparative 95% and below 40°C clean air, the shift amount of connection pole balance potential keeps at 5. 3-6. 3V, and can also applicable for different power and pressure, and its index various according to working pressure
- Radiation safety: single source, low source, low range, safety grade standard reaches to C64646 (GB40758-ISO2919)
- Use corrosive protection and high function plastic, palladium metal Am-241 and other high anticausticity material
- The basic shack and slot of ionization room is fitful to be installed in the upper part of IC. 15 connecting of IC and connection pole connection point get near and convenient for soldering and can effectively shield RF interference, meanwhile all the soldering point are coated with soldering tin previously so as to convenient for installation

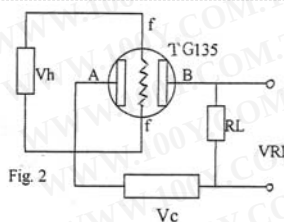
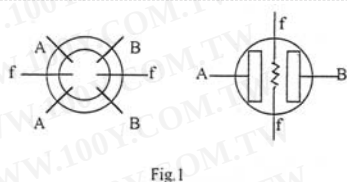
Detailed product specifications are available on: us.100y.com.tw

Part No.	Product No.	Description
48896	DSC-Ja08	Catalog of general p



- Environmental temperature: 20±3°C
- Capacitance: 6pF
- Insulated leak current (Max): 0. 5pA

Part No.	Product No.	Description
23866	HIS-07	Smoke detector
31646	JAS-05A	Smoke detector



FEATURES:

- Long Life-span
- Wider detection range

Part No.	Product No.	Description
11447	TG-135	CO, Air Quality Sensor

MQ-SERIES HIGH-QUALITY GAS SENSORS IN VARIOUS MODELS FOR DIFFERENT GAS

Detailed product specifications are available on: us.100y.com.tw

APPLICATIONS

- Gas leak detection for fouses/workshops
- Air quality control for buildings/offices
- CO monitoring systems for building/plants
- Gas detection systems for buildings/plants
- Fire detection systems

FEATURES:

- High sensitivity to low concentrations
- Fast response
- Wide range of gas concentrations
- Simple drive circuit
- Large output change without amplifier
- Stable and long life
- Good reproducibility

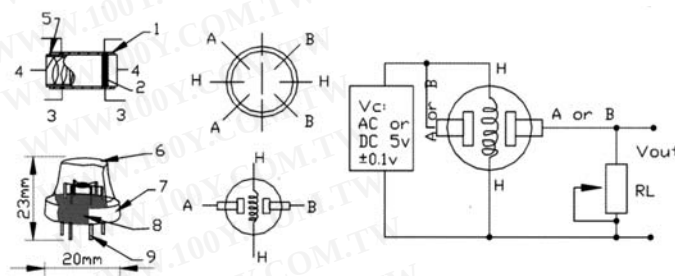
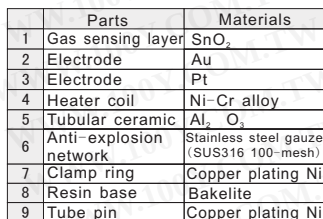


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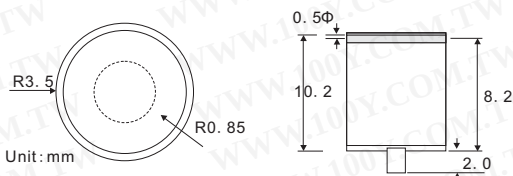
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Other Type Sensors

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- Tilt degree: Normally open 33°C (OFF→ON)
(other tilt angle are available)
- 10, 000 times on -off lift test
- Machinery type, non-mercury inside
- Max. input: 10 Watts

Unit : mm

- Micro shock detecting
- Non direction limited
- 60,000,000 times shock guarantee (special gold alloy plated)
- Low cost circuit can adjust sensitivity

Figure 1: Dimensions of the sensor module. The top view shows a rectangular module with a total length of 76.0 ± 0.2 mm and a width of 14.6 ± 0.3 mm. It features a 38.0 mm (PARTS MOUNTING PLACE) section on the left, a central section with a 4.0 mm gap, and a right section with a 7.3 mm gap. A 3.0 mm hole is located on the right. The bottom view shows a 3.0 mm thick substrate with a 4.1 mm filter (3.2 ± 0.2 ± 0.15 mm) and a 1.5 mm gap. A color sensor is located on the left, and a GND PAD (THROUGH HOLE) is on the right.

- Built-in RGB color sensor Sensitivity matches wavelengths of RGB-LED backlight for TFT-LCD.
- 3 ch current-to-voltage amplifiers Simultaneous output of 3 ch RGB photocurrent
- Configuration and size suitable for side mounting to TFT-LCD
- Suitable for lead-free solder
- Same gain and pin assignment to the conventional type C9303
- Low current consumption: 1/3 than the conventional type

- Number of effective pixels: 2592 pixels
- Pixel size: $11\mu\text{m} \times 11\mu\text{m}$ ($11\mu\text{m}$ pitch)
- Built-in timing generator and clock-drivers
- Ultra low lag
- High sensitivity
- Maximum clock frequency: 5MHz

Sensors & Transducers

Other Type Sensors

Detailed product specifications are available on: us.100y.com.tw

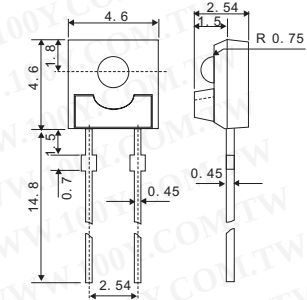


SPECIFICATIONS:

Detector type: twin
Element size (mm²): 2.0x1.0
Window material: Si filter
Pass band: 7-14 (um)
Signal sensitivity: Typ 2.7 (420°K, 1Hz)

Operating voltage (V): 2-15 (Drain-ground)
Operating current (μA) Typ: 11-15 (V₀=5V, R_s=47KΩ, 25°C)
Operating temperature °C: -20~+60
Storage temperature (°C): -35~+80

Part No.	Product No.	Description	Type
10308	PIR-145	Pyroelectric Sensor	TTP



FEATURES:

- Linear output conforming to illuminance
- Lead-pin package
- Low dark current: 10 nA typ.
- Lead-free soldering
- Environmental friendly Silicon chip

ELECTRO-OPTICAL CHARACTERISTICS

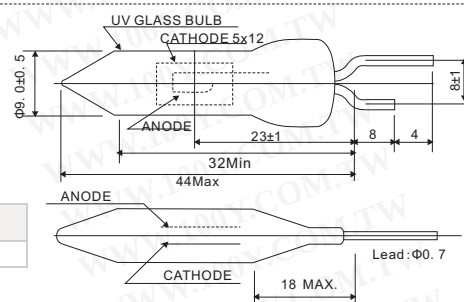
Item	Symbol	Conditions	Typ.	Max.	Unit
Collector - Emitter voltage	V _{CE0}	I _{CE} =100μA		10	V
Dark current	I _{CE0}	V _{CE} =5V	10	500	nA
Spectral response range	λ		400-650		nm
Peak wavelength	λ _p		560		nm
Light current	I _L	V _{CE} =5V, 101x (A光源)	100		μA

Part No.	Product No.	Manufacturer	Description
39574	PT23GP11	KODENSHI	Daylight Sensor(400-650nm)



APPLICATIONS

- Flame detectors for gas/oil lighters and matches
- Fire alarms
- Combustion monitors for burners
- Inspection of ultraviolet leakage
- Detection of discharge
- Ultraviolet switching



Part No.	Product No.	Manufacturer	Description	Type
10174	R2868	HAMAMATSU	Hamamatsu UV TRON ultraviolet detector	R2868



S1087/S1133 series are ceramic package photodiodes that offer low dark current. Ceramic package used is light-impervious, so no stray light can reach the active area from the side or backside. This allows reliable optical measurements in the visible to near infrared range, over a wide dynamic range from low light levels to high light levels.

Features

- S1133: For visible range
- General ratings/Absolute maximum ratings

Type No.	Effective active area (mm ²)	Absolute maximum ratings		
		Reverse voltage VR Max.(V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
S1133	6.6	10	-10 to +60	-20 to +70

Part No.	Product No.	Manufacturer	Description	Type
37543	S1087	HAMAMATSU	HAMAMATSU_Ceramic package photodiode with low dark current	S1087 Si photodiode
37544	S1087-01	HAMAMATSU	HAMAMATSU_Ceramic package photodiode with low dark current	S1087 Si photodiode
10155	S1133	HAMAMATSU	HAMAMATSU_Ceramic package photodiode with low dark current	S1133 Si photodiode



Features

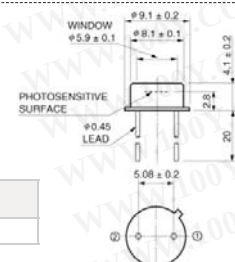
- High sensitivity
- High reliability

- High-speed response
S1223: f_c=30 Mhz
S1223-01: f_c=20 Mhz
- Low capacitance

Applications

- Optical measurement equipment
- Analytical equipment, etc.

Part No.	Product No.	Manufacturer	Description	Type
41239	S1223-01	HAMAMATSU	HAMAMATSU_Si Pin Photodiode	320~1100nm



Features

- Plastic package (6 × 8 mm)
- Spectral response range
S6428-01: 400 to 540 nm (λ_p=460 nm)
S6429-01: 480 to 600 nm (λ_p=540 nm)
S6430-01: 590 to 720 nm (λ_p=660 nm)
- Insensitive to near IR range
- High sensitivity
S6428-01: 0.22 A/W Typ. (λ=λ_p)
S6429-01: 0.27 A/W Typ. (λ=λ_p)
S6430-01: 0.45 A/W Typ. (λ=λ_p)
- Low dark current

Applications

- White balance adjustment
- Color identification
- Projector and TV brightness level detection
- Color control
- Light source color temperature detection

S6428-01, S6429-01 and S6430-01 are color sensors designed to respectively detect monochromatic colors of blue (λ_p=460 nm), green (λ_p=540 nm) and red (λ_p=660 nm).



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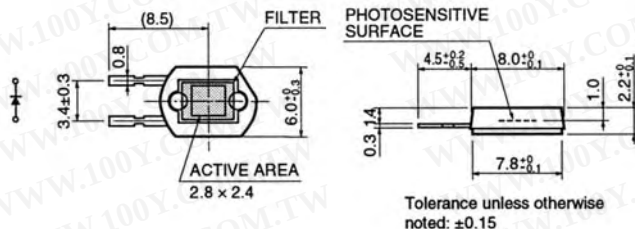
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Sensors & Transducers

Other Type Sensors

Detailed product specifications are available on: us.100y.com.tw



Part No.	Product No.	Manufacturer	Description	Type
10478	S6428-01	HAMAMATSU	HAMAMATSU_Color Sensor	S6428 Peak Sensitivity Wavelength 450nm
10164	S6429-01	HAMAMATSU	HAMAMATSU_Color Sensor (Green)	S6429 Peak Sensitivity Wavelength 550nm
10163	S6430-01	HAMAMATSU	HAMAMATSU_Color Sensor (Red)	S6430 Peak Sensitivity Wavelength 600nm



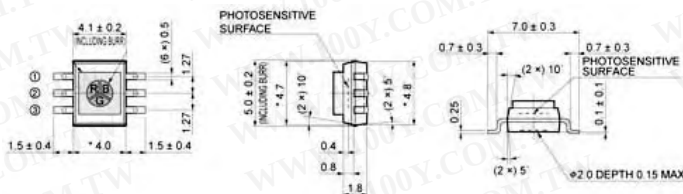
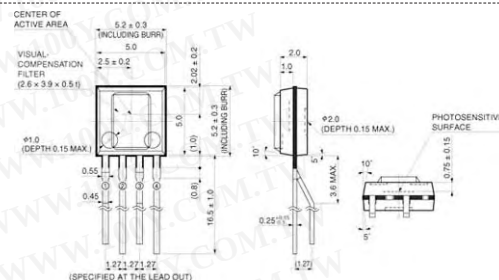
Features

- Visible light detection
- S7565 : Amplifies photocurrents about 1,300 times
- Just as easy to use as a photodiode

Applications

- Energy saving sensor for TV and air conditioners, etc.

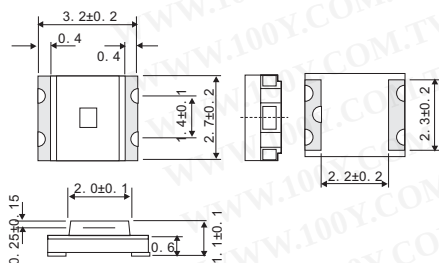
Part No.	Product No.	Manufacturer	Description
44988	S7565	HAMAMATSU	HAMAMATSU_Linear Current Amp. Photo IC For Visible Range



Features

- 3-channel (R, G, B) Si photodiode
- Surface-mount small plastic package
- Spectral response range close to the human eye sensitivity
- No sensitivity in the near IR region
- Active area: 3-segment (RGB) circular active area of $\phi 2$ mm

Part No.	Product No.	Manufacturer	Description
19765	S9032-02	HAMAMATSU	HAMAMATSU_RGB color sensor



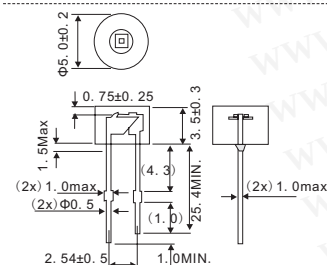
Features

- Spectral response close to human eye sensitivity is attained without using visual-compensated filter.
- Operation just as easy to use as a photodiode
- Large output current equivalent to phototransistors
- Excellent linearity
- Low output fluctuations for light sources producing the same illuminance at different color temperatures
- Compact and thin package: $2.0 \times 2.1 \times 0.9$ mm

Applications

- Energy-saving sensor for TVs, etc.
- Light dimmers for liquid crystal panels
- Cellular phone backlight dimmers
- Various types of light level measurement

Part No.	Product No.	Manufacturer	Description
44989	S9067-01	HAMAMATSU	HAMAMATSU_PHOTO IC DIODE



Features

- Spectral response close to human eye sensitivity is attained without using visual-compensated filter.
- Operation just as easy to use as a photodiode
- Lower output-current fluctuations compared with phototransistors and CdS photoconductive cells.
- Excellent linearity
- Low output fluctuations for light sources producing the same illuminance at different color temperatures

Applications

- Energy-saving sensor for TVs, etc.
- Light dimmers for liquid crystal panels
- Various types of light level measurement

Part No.	Product No.	Manufacturer	Description	Type
44990	S9648	HAMAMATSU	HAMAMATSU_PHOTO IC DIODE	9648 max wavelength 820nm

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Sensors & Transducers

Other Type Sensors

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SPOT-4D



SPOT-4DMI



SPOT-9D

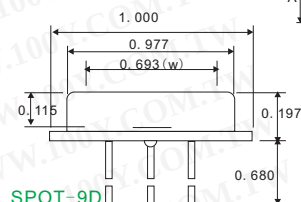
FEATURES

- High Accuracy
- Excellent Resolution
- High-Speed Response
- Ultra Low Dark Current
- Excellent Response Match
- High Stability over Time and Temperature

APPLICATIONS

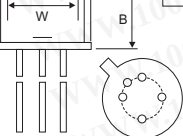
- Machine Tool Alignment
- Position Measuring
- Beam Centering
- Surface Profiling
- Targeting
- Guidance Systems

Model NO	Active Area Per Element		Elemen Cap (mm)	Responsivity (A/W)		Capacitance (pF)		Dark Current (nA)		NEP (W/√Hz)		Reverse Voltage (V)		Rise Time (ns)		Temp Ranger(°C)		Packag Style
				970 nm		-10 V		-10 V		-10V 970 nm		-10 V 780 nm 502		Operating		storage		
	Area (mm²)	Dimension (mm)		mm	typ	typ	typ	max	typ	max	typ	max	typ	max	typ	max		
SPOT-4D	1.61	1.3 sq	0.127	0.60	0.65	5	0.10	1.0	8.7 e-15	30	3	-40~+100		-55~+125		38/TO-8		
SPOT-4DMI	0.25	0.5 sq	0.013			1	0.01	0.5	2.8 e-15	1.9 e-14						40/TO-8		
SPOT-9D	19.6	10Φ	0.102			60	0.50	10.0										



SPOT-9D

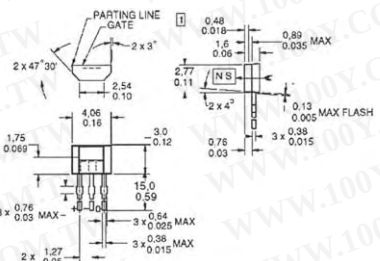
P/N	A	B	W
SPOT-4D	0.063	0.142	0.240
SPOT-4DMI	0.063	0.142	0.240



Part No.	Product No.	Manufacturer	Description	Type
16171	SPOT-4D	OSI Optoele.	Position Sensing Detector, PIN photodiode, quadrant	SPOT
16172	SPOT-4DMI	OSI Optoele.	UDT-Sensors_Bi cell/Quadrant Position Sensor	SPOT
16173	SPOT-9D	OSI Optoele.	Position Sensing PIN Photodiode, quad-cells.	SPOT

FEATURES

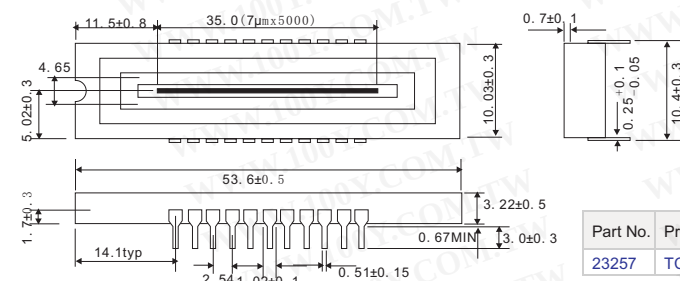
- Small size (.160x.118")
- Low power consumption-typically 7mA at 5VDC
- Single current sinking or current sourcing linear output
- Built-in thin-film resistors-laser trimmed for precise sensitivity and temperature compensation
- Rail-to-rail operation provides more useable signal for higher accuracy
- Operating temperature range of -40 to 150°C
- Responds to either positive or negative gauss
- Quad Hall sensing element for stable output



Part No.	Product No.	Manufacturer	Description	Type
37887	SS495A	Honeywell	Solid State Sensor Miniature Ratiometric Linear	SS490

FEATURES

- Number of image sensing elements: 5000
- Image sensing element size: 7μm by 7μm on 7μm centers
- Photo sensing region: high sensitive and low dark current pn photodiode
- Clock: 2 phase (12V)
- Package: 22 pin DIP
- Window Glass: Antireflected coating



Part No.	Product No.	Manufacturer	Description	Type
23257	TCD141C	TOSHIBA	LINEAR IMAGE SENSOR CCD (Charge Coupled Device)	22P/DIP



Features:

- High sensitivity to organic solvent vapors such as ethanol
- High stability and reliability over a long period
- Long life and low cost
- Uses simple electrical circuit

Applications:

- Breath alcohol detectors
- Gas leak detectors/alarms
- Solvent detectors for factories, dry cleaners, and semiconductor industries

Part No.	Product No.	Manufacturer	Description	Type
6416	TG-130R	Figaro	Alcohol Sensor	TGS-822

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