



DESCRIPTION & APPLICATION

HEMKUNT electronics Proximity Switch/Sensor offer solid state reliability, very low power consumption, and consistent activation points over a wide temp. Range in a rugged and environmentally isolated package.

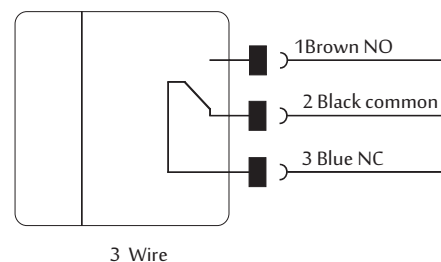
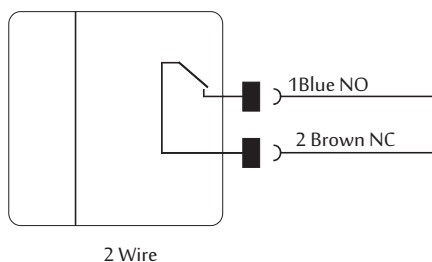
Inductive Proximity Switches are used for non contact detection of ferrous (metallic) objects which find wide application in industrial process control. They are the preferred choice for the majority of applications requiring accurate, non contact detection of metallic object in machinery / automatic equipment. They work on electro magnetic principle and are resistant to atmospheric conditions like humidity, dust, oil, paint, etc. Low power consumption, availability in wide range of packages and low price has made them very popular in industry.

HEMKUNT electronics specializes in customizing designs to specific customer needs for a wide range of applications. Please feel free contact us to provide the optimal solution for your specific needs.

FEATURES

- # Automatic adjustable # Easy to install
- # Reliable # Maintenance free
- # Environmental protection

WIRING DIAGRAM



HEMKUNT ELECTRONICS

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Inductive Proximity sensors

Inductive Proximity Switches are used for non contact detection of ferrous (metallic objects) which find a very wide application in industrial process control. They are the preferred choice for the majority of applications requiring accurate, non contact detections of metallic objects in machinery or automatic equipment. They work on electro Magnetic Principle and are resistant to atmospheric conditions like humidity, dust, oil, paint, etc. Low power consumption, availability in wide range of packages and low unit price has made them very popular in industry.

Types

Standard Cylindrical Type

Inductive Sensors are available from M-5 to M-80 Diameters.



M-5- Input Voltage DC (3 Wire)

Order Code	Range (mm)	Logic	O/P	Mounting
HE1AS1	1 mm	PNP	NO	FLUSH
HE1AS2			NC	
HE1AR1		NPN	NO	
HE1AR2			NC	

Voltage 5-40 V DC
Max Load Current <300mA
Voltage Drop <2V DC
Leakage Current <8mA@12 V DC
Switching Freq 1000Hz
LED Indication, Reverse Polarity
Protected,, Switching Impulse
Suppression, PVC Cable,

M-6.5- Input Voltage DC (3 Wire)

Order Code	Range (mm)	Logic	O/P	Mounting
HE1.5BS1	1.5 mm	PNP	NO	FLUSH
HE1.5BS2			NC	
HE1.5BR1		NPN	NO	
HE1.5BR2			NC	

Voltage 5-40 V DC
Max Load Current <300mA
Voltage Drop <2V DC
Leakage Current <8mA@12 V DC
Switching Freq 1000Hz

M-8- Input Voltage DC (3 Wire)

Order Code	Range (mm)	Logic	O/P	Mounting
HE1.5CS1	1.5 mm	PNP	NO	FLUSH
HE1.5CS2			NC	
HE1.5CR1		NPN	NO	
HE1.5CR2			NC	

LED Indication, Reverse Polarity
Protected, Over Load Protected
Short Circuit Proof, Switching Impulse
Suppression, PVC Cable,

All the above models are also available in connector type version with suffix "P" to the model number, Example HE1.5CS1P



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M-12 (Input DC Voltage 3 Wire)

Order Code	Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
HE2ES1	02 mm	PNP	NO	FLUSH	1000Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA- @12 V DC Switching Freq 2000Hz LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
HE4ES1	04 mm			NON FLUSH	800Hz	
HE2ES2	02 mm		NC	FLUSH	1000Hz	
HE4ES2	04 mm			NON FLUSH	800Hz	
HE2ER1	02 mm	NPN	NO	FLUSH	1000Hz	
HE4ER1	04 mm			NON FLUSH	800Hz	
HE2ER2	02 mm		NC	FLUSH	1000Hz	
HE4ER2	04 mm			NON FLUSH	800Hz	
All the above models are available in connector type version with suffix "P" to the model number, Example HE4ES1P						

M-12 (Input AC Voltage 2 Wire)



Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE2EW1	02 mm	NO	FLUSH	25Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse - Suppression, PVC Cable,
HE4EW1	04 mm		NON FLUSH		
HE2EW2	02 mm	NC	FLUSH		
HE4EW2	04 mm		NON FLUSH		
HE2EW1P	02 mm	NO	FLUSH		
HE2EW1P	04 mm		NON FLUSH		
HE2EW2P	02 mm	NC	FLUSH		
HE4EW2P	04 mm		NON FLUSH		
All the above models are available in connector type version with suffix "P" to the model number, Example HE2EW1P					

M-18 (Input DC Voltage 3 Wire O/P)



Order Code Range (mm)		Logic	O/P	Mounting	Frequency	Common Specs
HE5GS1	05 mm	PNP	NO	FLUSH	800Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA- @12 V DC Switching Freq 2000Hz
HE8GS1	08 mm			NON FLUSH	600Hz	
HE5GS2	05 mm		NC	FLUSH	800Hz	
HE8GS2	08 mm			NON FLUSH	600Hz	
HE5GR1	05 mm	NPN	NO	FLUSH	800Hz	LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
HE8GR1	08 mm			NON FLUSH	600Hz	
HE5GR2	05 mm		NC	FLUSH	800Hz	
HE8GR2	08 mm			NON FLUSH	600Hz	
All the above models are available in connector type version with suffix "P" to the model number, Example HE5GS1P						



M-18 (Input DC Voltage 2 Wire)



Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE5GA1	05 mm	NO	FLUSH	25Hz	Voltage 20-110 V DC Max Load Current <400mA Voltage Drop <7V DC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
HE8GA1	08 mm		NON FLUSH		
HE5GA2	05 mm	NC	FLUSH		
HE8GA2	08 mm		NON FLUSH		
All the above models are available in connector type version with suffix "P" to the model number, Example HE5GA1P					

M-18 (Input AC Voltage 2 Wire)



Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE5GW1	05 mm	NO	FLUSH	25Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse - Suppression, PVC Cable,
HE5GW2	08 mm		NON FLUSH		
HE8GW1	05 mm	NC	FLUSH		
HE8GW2	08 mm		NON FLUSH		
All the above models are available in connector type version with suffix "P" to the model number, Example HE5GW1P					

M-30 (Input DC Voltage 3 Wire O/P)



Order Code Range (mm)		Logic	O/P	Mounting	Frequency	Common Specs
HE10HS1	10 mm	PNP	NO	FLUSH	600Hz	Voltage 5-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA- @12 V DC Switching Freq 2000Hz LED Indication, Reverse Polarity, Protected, Over Load Protected, Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
HE15HS1	15 mm			NON FLUSH	500Hz	
HE10HS2	10 mm		NC	FLUSH	600Hz	
HE15HS2	15 mm			NON FLUSH	500Hz	
HE10HR1	10 mm	NPN	NO	FLUSH	600Hz	
HE15HR1	15 mm			NON FLUSH	500Hz	
HE10HR2	10 mm		NC	FLUSH	600Hz	
HE15HR2	15 mm			NON FLUSH	500Hz	
All the above models are available in connector type version with suffix "P" to the model number, Example HE15HS1P						



M-30 (Input DC Voltage 2 Wire O/P)

Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE10HA1	10 mm	NO	FLUSH	25Hz	Voltage 20-110 V DC Max Load Current <400mA Voltage Drop <7V DC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
HE15HA1	15 mm		NON FLUSH		
HE10HA2	10 mm	NC	FLUSH		
HE15HA2	15 mm		NON FLUSH		
HE10HA1	10 mm	NO	FLUSH		
HE15HA1	15 mm		NON FLUSH		
HE10HA2	10 mm	NC	FLUSH		
HE15HA2	15 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P" to the model number Example HE15HA1P

M-30 (Input AC Voltage 2 Wire)

Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE10HW1	10 mm	NO	FLUSH	25Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
HE15HW1	15 mm		NON FLUSH		
HE10HW2	10 mm	NC	FLUSH		
HE15HW2	15 mm		NON FLUSH		

All the above models are available in connector type version with suffix "P" to the model number, Example HE10HW1P

M-50 (Input DC Voltage 3 Wire O/P)

Order Code	Range (mm)	Logic	O/P	Mounting	Frequency	Common Specs
HE25KS1	25 mm	PNP	NO	NON FLUSH	300Hz	Voltage 05-40 V DC Max Load Current <300mA Voltage Drop <2V DC Leakage Current <8mA LED Indication, Reverse Polarity Protected, Over Load Protected Short Circuit Proof, Switching Impulse Suppression, PVC Cable,
HE25KS2			NC			
HE25KR1		NPN	NO			
HE25KR2			NC			

All the above models are available in connector type version with suffix "P" to the model number, Example HE25KS1P

M-50 (Input AC Voltage 2 Wire O/P)

Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE25KW1	25 mm	NO	NON FLUSH	25Hz	Voltage 20-250 V AC Max Load Current <500mA Voltage Drop <5V AC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
HE25KW2		NC			

All the above models are available in connector type version with suffix "P" to the model number, Example HE25KW1P

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M-50 (Input DC Voltage 2 Wire O/P)

Order Code	Range (mm)	O/P	Mounting	Frequency	Common Specs
HE25KA1	25 mm	NO	NON FLUSH	25Hz	Voltage 20-110 V DC Max Load Current <400mA Voltage Drop <7V DC Leakage Current <1.5mA LED Indication, Switching Impulse Suppression, PVC Cable,
HE25KA2		NC			

All the above models are available in connector type version with suffix "P" to the model number, Example HE25KA1P

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our product should be installed by a qualified personnel only, therefore any use of this application is at the installer's own risk and should be accessed appropriately.

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Inductive- Block (Rectangular) Type DC IPS Input Voltage 3 Wire

Order Code	Dimensions	Logic	O/P	Sn Rage
HE8G36S1K	18x18x36 mm	PNP	NO	08 mm
HE8G36S2K			NC	
HE8G36R1K		NPN	NO	
HE8G36R2K			NC	
HE5G36S1K	18x18x25 mm	PNP	NO	05 mm
HE5G36S2K			NC	
HE5G36R1K		NPN	NO	
HE5G36R2K			NC	
HE8K50S1K	10x25x50 mm	PNP	NO	08 mm
HE8K50S2K			NC	
HE8K50R1K		NPN	NO	
HE8K50R2K			NC	
HE15H54S1K	30x30x54 mm	PNP	NO	15 mm
HE15H54S2K			NC	
HE15H54R1K		NPN	NO	
HE15H54R2K			NC	
HE8E45S1K	12x30x45 mm	PNP	NO	08 mm
HE8E45S2K			NC	
HE8E45R1K		NPN	NO	
HE8E45R2K			NC	
HE15G55S1K	16x40x55 mm	PNP	NO	15 mm
HE15G55S2K			NC	
HE15G55R1K		NPN	NO	
HE15G55R2K			NC	
HE4E40S1K	12x27x40 mm	PNP	NO	04 mm
HE4E40S2K			NC	
HE4E40R1K		NPN	NO	
HE4E40R2K			NC	

Common Specs for above sensors:-

Voltage 05-40 V DC, Max Load Current <200mA, Voltage Drop <2V DC, Leakage Current <8mA, Frequency <600 Hz, Reverse Polarity Protected, Switching Impulse, Suppression, PVC Cable,

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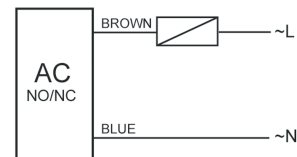
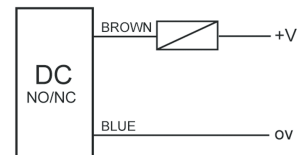
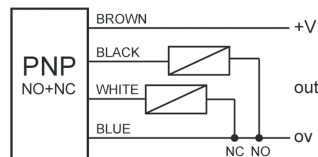
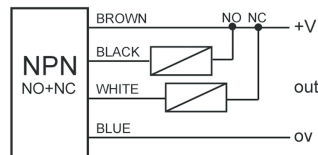
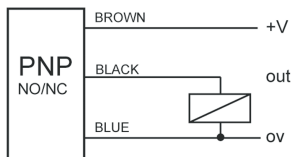
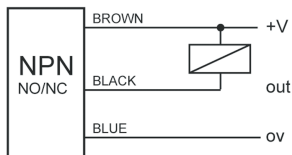
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Slot Type (U Type)

Order Code	Slot Width	Slot Depth	Logic	O/P	Common Specs
HE5SLS1	05 mm	16 mm	PNP	NO	Voltage 10-35 V DC Max Load Current <200mA Voltage Drop <2V DC Leakage Current <8mA Frequency <800 Hz Reverse Polarity Protected, Switching Impulse, Suppression, PVC Cable,
HE5SLS2			PNP	NC	
HE5SLR1			NPN	NO	
HE5SLR2			NPN	NC	
HE10SLS1	10 mm	32 mm	PNP	NO	
HE10SLS2			PNP	NC	
HE10SLR1			NPN	NO	
HE10SLR2			NPN	NC	
HE15SLS1	15 mm	40 mm	PNP	NO	
HE15SLS2			PNP	NC	
HE15SLR1			NPN	NO	
HE15SLR2			NPN	NC	



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