

# Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>4 mm - Embeddable, Miniature Smooth, picofast® Quick Disconnect</b> 	Bi 1-EH04-AN6X-V1331	S4608540		1	3-Wire DC NPN
	Bi 1-EH04-AP6X-V1331	S4608440		1	3-Wire DC PNP
	Bi 1-EH04-Y1-V1330	S1003044		1	2-Wire DC NAMUR
<b>5 mm - Embeddable, Miniature Threaded, picofast Quick Disconnect</b> 	Bi 1-EG05-AN6X-V1331	S4608740		1	3-Wire DC NPN
	Bi 1-EG05-AP6X-V1331	S4608640		1	3-Wire DC PNP
	Bi 1-EG05-Y1-V1331	S1003241		1	2-Wire DC NAMUR
<b>6.5 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect</b> 	Bi 1.5-EH6.5K-AN6X-V1131	S4610840	Short Barrel	1.5	3-Wire DC NPN
	Bi 2-EH6.5K-AN6X-V1131	S4610120	Short Barrel	2	
	Bi 1.5-EH6.5K-AP6X-V1131	S4610740	Short Barrel	1.5	3-Wire DC PNP
	Bi 1.5-EH6.5K-AP6X-V1131/S100	S4612003	High Temp. 100°C	1.5	
	Bi 2-EH6.5K-AP6X-V1131	S4610020	Short Barrel	2	
<b>6.5 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect</b> 	Bi 1.5-EH6.5-AN6X-V1131	S4612120		1.5	3-Wire DC NPN
	Bi 1.5U-EH6.5-AN6X-V1131	S4600687	Uprox	1.5	
	Bi 2-EH6.5-AN6X-V1131	S4612320		2	
	Bi 2U-EH6.5-AN6X-V1131	S4281180	Uprox	2	
	Bi 1.5-EH6.5-AP6X-V1131	S4612020		1.5	3-Wire DC PNP
	Bi 2-EH6.5-AP6X-V1131	S4612220		2	
	Bi 2U-EH6.5-AP6X-V1131	S4281160	Uprox	2	
	Bi 1.5-EH6.5-AP6X-V1131/S100	S4612002	High Temp. 100°C	1.5	
	Bi 1.5-EH6.5-Y1-V1130	S1004621		1.5	2-Wire DC NAMUR

For detailed sensor specifications see Section M.  
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	<div style="border: 1px solid black; padding: 5px;"> <p><b>Diagram 1</b></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Diagram 2</b></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Diagram 3</b></p> </div>
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +100	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +100	IP 67	SS	EPTR	N/A	YE	PKG 3Z-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	



Barrels

\* Length in meters.

For material descriptions see page M22.

# Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>3 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable</b> 	Bi 1-EH03-AN7X*	M1619323	<i>TTL Compatible</i>	1	3-Wire DC NPN
	Bi 1-EH03-AP7X*	M1619322	<i>TTL Compatible</i>	1	3-Wire DC PNP
<b>4 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable</b> 	Bi 1-EH04-AN6X	S4609640		1	3-Wire DC NPN
	Bi 1-EH04-AP6X	S4609540		1	3-Wire DC PNP
	Bi 1-EH04-Y1	S1003040		1	2-Wire DC NAMUR
<b>5 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable</b> 	Bi 1-EG05-AN6X	S4609840		1	3-Wire DC NPN
	Bi 1-EG05-AP6X	S4609740		1	3-Wire DC PNP
	Bi 1-EG05-Y1	S1003240		1	2-Wire DC NAMUR

\* Flush mountable only in non-ferrous metals.

For detailed sensor specifications see Section M.  
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	5000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p><b>Diagram 1</b></p>
10-30 VDC	5000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p><b>Diagram 2</b></p>
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p><b>Diagram 3</b></p>
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	



Barrels

For material descriptions see page M22.

# Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>5 mm - Embeddable, Side Sensing, Miniature Smooth Barrel, Potted-In Cable</b>  	Bi 1-HS540-AN6X	S4604101	Side Sensing	1	3-Wire DC NPN
	Bi 1-HS540-AP6X	S4604001	Side Sensing	1	3-Wire DC PNP
	Bi 1-HS540-Y1	S1004001	Side Sensing	1	2-Wire DC NAMUR
<b>8 mm - Embeddable, Side Sensing, Miniature Smooth Barrel, Potted-In Cable</b>  	Bi 1.5-HS865-AN6X	S4604301	Side Sensing	1.5	3-Wire DC NPN
	Bi 1.5-HS865-AP6X	S4604201	Side Sensing	1.5	3-Wire DC PNP
	Bi 1.5-HS865-Y1	S1004201	Side Sensing	1.5	2-Wire DC NAMUR

For detailed sensor specifications see Section M.  
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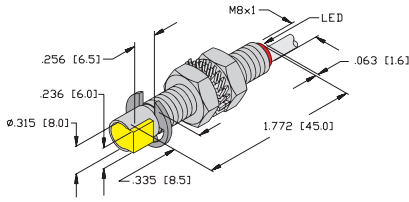
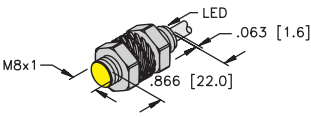
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p><b>Diagram 1</b></p>
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p><b>Diagram 2</b></p>
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	<p><b>Diagram 3</b></p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p><b>Diagram 3</b></p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	

Barrels

For material descriptions see page M22.

# Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>8 mm - Embeddable, Miniature Threaded Barrel, Side Sensing, Potted-In Cable</b> 	Bi 1.5-GS880-AN6X	S4604501	Side Sensing	1.5	3-Wire DC NPN
	Bi 1.5-GS880-AP6X	S4604401	Side Sensing	1.5	3-Wire DC PNP
	Bi 1.5-GS880-Y0	S1004401	Side Sensing	1.5	2-Wire DC NAMUR
<b>8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable</b> 	Bi 2-EG08K-AG41X	S4562010		2	2-Wire DC
	Bi 2-EG08K-AG41X/S1589	S4562091	weldguard	2	
	Bi 2-EG08K-AG41X/S1610	S4562096	armorguard	2	
	Bi 1.5-EG08K-AN6X	S4669140	Short Barrel	1.5	3-Wire DC NPN
	Bi 2-EG08K-AN6X	S4669500	Short Barrel	2	
	Bi 2-EG08K-AN6X/S1589	S4669587	weldguard	2	
	Bi 2-EG08K-AN6X/S957*	S4669503	Flush Mount	2	
	Bi 1.5-EG08K-AP6X	S4669040	Short Barrel	1.5	3-Wire DC PNP
	Bi 2-EG08K-AP6X	S4669400	Short Barrel	2	
	Bi 2-EG08K-AP6X/S957*	S4669453	Flush Mount	2	
	Bi 2-EG08K-AP6X/S97	S4669413	Low Temp.	2	
	Bi 1.5-EG08K-AP6/S100	S4669016	High Temp. 100°C	1.5	
	Bi 1.5-EG08K-Y1	S1003600	Short Barrel	1.5	2-Wire DC NAMUR

\* Full flush mounting in steel without reducing 2 mm sensing range.

For detailed sensor specifications see Section M.  
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Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<b>Diagram 1</b> 
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<b>Diagram 2</b> 
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	<b>Diagram 3</b> 
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	4	<b>Diagram 4</b> 
	1000	≤100	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	4	
	1000	≤100	-25 to +70	IP 67	AG	WG	TROG	N/A	YE	2M/PUR	4	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<b>Diagram 3</b> 
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +100	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<b>Diagram 4</b> 
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-40 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +100	IP 67	SS	EPTR	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	

Barrels

For material descriptions see page M22.