

Inductive
Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
12 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi 2-P12SK-Y1X	M4031000		•	2	2-Wire DC NAMUR
	Ni 5-P12SK-Y0X	T4031100			5	2-Wire DC NAMUR
12 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi 2-P12SK-AD4X	T4453050		•	2	2-Wire DC
	Bi 2-P12SK-AN6X2	T4654000		•	2	3-Wire DC NPN
	Bi 3U-P12SK-AN6X	M1634720	<i>Uprox</i>	•	3	
	Ni 5-P12SK-AN6X2	T4654200			5	
	Ni 8U-P12SK-AN6X	M1644720	<i>Uprox</i>		8	
	Bi 2-P12SK-AP6X2	T4653900		•	2	3-Wire DC PNP
	Bi 3U-P12SK-AP6X	M1634700	<i>Uprox</i>	•	3	
	Ni 5-P12SK-AP6X2	T4654100			5	
Ni 8U-P12SK-AP6X	M1644700	<i>Uprox</i>		8		
Bi 2-P12SK-AZ31X	M1339500			•	2	2-Wire AC/DC

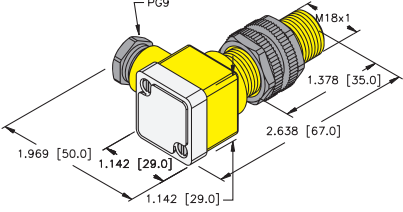
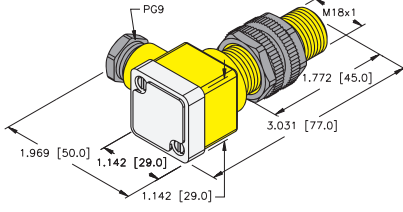
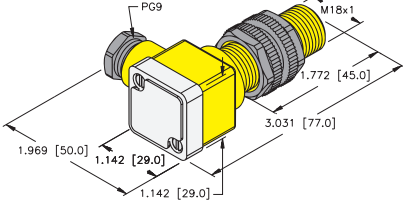
TURCK mold-on connectors available on all cable sensors. See page M25.



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
5-30 VDC	5000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	1	Diagram 1
5-30 VDC	2000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	1	Diagram 2
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	2	Diagram 3
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	3	Diagram 4
	3000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	- - - -	3	
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	3	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	- - - -	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	4	Diagram 5
	3000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	- - - -	4	
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	4	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	- - - -	4	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	5	

Barrels



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
18 mm - Embeddable and Nonembeddable, Full Threading, Terminal Chamber 	Bi 5-P18SK-Y1X	M4036000		•	5	2-Wire NAMUR
	Ni10-P18SK-Y1X	M4036100			10	
18 mm - Embeddable and Nonembeddable, Full Threading, Terminal Chamber 	Bi 5-P18SK-AN6X2	T4657000		•	5	3-Wire DC NPN
	Bi 5U-P18SK-AN6X	M1635720	<i>Uprox</i>	•	5	
	Ni10-P18SK-AN6X2	T4657200			10	
	Ni12U-P18SK-AN6X	M1645720	<i>Uprox</i>		12	
	Bi 5-P18SK-AP6X2	T4656900		•	5	3-Wire DC PNP
	Bi 5U-P18SK-AP6X	M1635700	<i>Uprox</i>	•	5	
Ni10-P18SK-AP6X2	T4657100			10		
Ni12U-P18SK-AP6X	M1645700	<i>Uprox</i>		12		
18 mm - Embeddable and Nonembeddable, Full Threading, Terminal Chamber 	Bi 5-P18SK-AZ3X2	T4351400		•	5	2-Wire AC/DC
	Ni10-P18SK-AZ3X2	T4351500			10	

TURCK mold-on connectors available on all cable sensors. See page M25.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	N/A	YE	- - - -	1	<p>Diagram 1</p>
	500	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	N/A	YE	- - - -	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	2	<p>Diagram 2</p> <p>Diagram 3</p>
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	N/A	YE	- - - -	2	
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	2	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	N/A	YE	- - - -	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	3	<p>Diagram 4</p>
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	N/A	YE	- - - -	3	
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	3	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	N/A	YE	- - - -	3	
20-250 VAC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	RD	- - - -	4	
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	RD	- - - -	4	

Barrels



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
20 mm - Nonembeddable, Smooth Barrel, Potted-In Cable 	Ni 10-K20-AN6X	M4664100		10	3-Wire DC NPN
	Ni 10-K20-AP6X	M4664000		10	3-Wire DC PNP
	Ni 10-K20-Y1	M1007200		10	2-Wire DC NAMUR
20 mm - Nonembeddable, Smooth Barrel, Potted-In Cable 	Ni 10-K20-AZ3X	M4358500		10	2-Wire AC/DC
20 mm - Nonembeddable, Smooth Barrel, Terminal Chamber 	Ni 10-K20SK-AN6X2	T4664800		10	3-Wire DC NPN
	Ni 10-K20SK-AP6X2	T4664693		10	3-Wire DC PNP
20 mm - Nonembeddable, Smooth Barrel, Terminal Chamber 	Ni 10-K20SK-AZ3X2	T4359200		10	2-Wire AC/DC

TURCK mold-on connectors available on all cable sensors. See page M25.



Output	Switching Freq. (Hz)	Operating Current (mA)VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
5-30 VDC	500	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	<p>Diagram 4</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	5	<p>Diagram 5</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	6	<p>Diagram 6</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	RD	- - - -	7	<p>Diagram 7</p>

Barrels



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable, Partial Threading 	Bi10NF-S30-AN6X	M1621500	<i>Nonferrous</i>	•	10	3-Wire DC NPN
	Bi10NF-S30-AP6X	M1611500	<i>Nonferrous</i>	•	10	3-Wire DC PNP
30 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi10-P30SK-AN6X2	T4660000		•	10	3-Wire DC NPN
	Bi10U-P30SK-AN6X	M1636720	<i>Uprox</i>	•	10	
	Ni15-P30SK-AN6X2	T4660200			15	
	Ni20U-P30SK-AN6X	M1646720	<i>Uprox</i>		20	
	Bi10-P30SK-AP6X2	T4659900		•	10	3-Wire DC PNP
	Bi10U-P30SK-AP6X	M1636700	<i>Uprox</i>	•	10	
	Ni15-P30SK-AP6X2	T4660100			15	
	Ni20U-P30SK-AP6X	M1646700	<i>Uprox</i>		20	
	Bi10-P30SK-AZ3X2	T4356400		•	10	2-Wire AC/DC Normally Open
	Ni15-P30SK-AZ3X2	T4356500			15	
30 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi10-P30SR-AP6X	M1611600			10	3-Wire DC PNP
	Bi10-P30SR-FZ3X2	M1342000		•	10	2-Wire AC
	Ni15-P30SR-FZ3X2	M1342100			15	
	Bi10-P30SR-VN4X2	M1575200	<i>Comp. Outputs</i>	•	10	4-Wire DC NPN
	Ni15-P30SR-VN4X2	M1575300	<i>Comp. Outputs</i>		15	
	Bi10-P30SR-VP4X2	M1565200	<i>Comp. Outputs</i>	•	10	4-Wire DC PNP
	Ni15-P30SR-VP4X2	M1565300	<i>Comp. Outputs</i>		15	

TURCK mold-on connectors available on all cable sensors. See page M25.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	0 to +60	IP 67	CPB	PA 12	EPTR	N/A	YE	PVC	1	Diagram 1
10-30 VDC	500	≤200	0 to +60	IP 67	CPB	PA 12	EPTR	N/A	YE	PVC	2	Diagram 2
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	3	Diagram 3
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	----	N/A	YE	----	3	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	3	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	----	N/A	YE	----	3	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	4	Diagram 4
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	----	N/A	YE	----	4	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	4	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	----	N/A	YE	----	4	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	----	5	Diagram 5
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	----	5	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	4	
20-250 VAC	20	≤500	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	----	5	Diagram 6
	20	≤500	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	----	5	
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	6	Diagram 7
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	6	
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	7	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	----	7	

Barrels



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
40 mm - Smooth Plastic, Terminal Chamber 	Ni20-K40SR-VN4X2	M1575600	Comp. Outputs		20	4-Wire DC NPN
	Ni30-K40SR-VN4X2	M1575800	Comp. Outputs		30	
	Bi15-K40SR-VP4X2	M1565500	Comp. Outputs	•	15	4-Wire DC PNP
	Ni20-K40SR-VP4X2	M1565600	Comp. Outputs		20	
	Ni30-K40SR-VP4X2	M1565800	Comp. Outputs		30	
	Bi15-K40SR-FZ3X2	M1342300	Programmable Output	•	15	2-Wire AC/DC
	Ni20-K40SR-FZ3X2	M1342400	Programmable Output		20	
	Ni30-K40SR-FZ3X2	M1342500	Programmable Output		30	

TURCK mold-on connectors available on all cable sensors. See page M25.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>-OR-</p>
	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	1	
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	2	
	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	2	
	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	GN	RD	- - - -	3	
	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	GN	RD	- - - -	3	
	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	GN	RD	- - - -	3	

Barrels