

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection 	Bi 4-M12K-AN6X-H1141	T4607101	Short Barrel	4	3-Wire DC PNP
	Bi 4-M12K-AP6X-H1141	T4607082	Short Barrel	4	3-Wire DC PNP
	Bi 2-M12K-VP6X-H1141	M1633005	Short Barrel	2	4-Wire DC PNP
12 mm - Embeddable, eurofast Connection 	Bi 2-M12-AD4X-H1141	T4406500		2	2-Wire DC
	Bi 3-M12-AD4X-H1141	T4405041	Ext. Range	3	
	Bi 2-EM12-AN6X-H1141	T4606601		2	3-Wire DC NPN
	Bi 2-M12-AN6X-H1141	T4606600		2	
	Bi 3-EM12WD-AN6X-H1141	M1634334	Washdown	3	
	Bi 3-M12WD-AN6X-H1141	M4607120	Washdown	3	
	Bi 3U-EM12-AN6X-H1141	M1634350	Uprox	3	
	Bi 3U-M12-AN6X-H1141	M1634150	Uprox	3	
	Bi 3U-M12-AN6X2-H1141	M1634155	Uprox	3	
	Bi 4-M12-AN6X-H1141	T4607100	Extended Range	4	
	Bi 2-EM12-AP6X-H1141	T4606501		2	3-Wire DC PNP
	Bi 2-M12-AP6X-H1141	T4606500		2	
	Bi 3-EM12WD-AP6X-H1141	M1634331	Washdown	3	
	Bi 3-M12WD-AP6X-H1141	M4607121	Washdown	3	
	Bi 3U-EM12-AP6X-H1141	M1634340	Uprox	3	
	Bi 3U-EM12H-AP6X-H1141	M1634312	Uprox, Stoneface	3	
	Bi 3U-M12-AP6X-H1141	M1634140	Uprox	3	
	Bi 3U-M12-AP6X2-H1141	M1634145	Uprox	3	
	Bi 4-M12-AP6X-H1141	T4607000	Extended Range	4	
	Bi 2-M12-VN6X-H1141	T1643000	Comp. Outputs	2	
	Bi 4-M12-VN6X-H1141	T1643200	Ext. Range, Comp. Outputs	4	
	Bi 2-M12-VP6X-H1141	T1633000	Comp. Outputs	2	4-Wire DC PNP
	Bi 4-M12-VP6X-H1141	T1633200	Ext. Range, Comp. Outputs	4	
	Bi 4-EM12-VP6X-H1141	T1633201	Ext. Range, Comp. Outputs	4	
	Bi 2-EM12-Y0X-H1141	T4010098		2	2-Wire DC NAMUR
	Bi 2-M12-Y1X-H1141	M4010200		2	

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	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 1
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 2
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 3
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	2	Diagram 4
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	2	
	3000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	3	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	3000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	SF	N/A	YE	RKG 4T-*/S600	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 6
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	5	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.21T-*	6	
	5000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	

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* Length in meters.

For material descriptions see page M22.

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Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
12 mm - Embeddable/Nonembeddable, Plastic, eurofast® Quick Disconnect 	Bi 3-P12WD-AN6X-H1141	M4605143	Washdown	•	3	3-Wire DC NPN	
	Ni 5-P12WD-AN6X-H1141	M4653713	Washdown		5		
	Bi 3-P12WD-AP6X-H1141	M4605142	Washdown	•	3	3-Wire DC PNP	
	Ni 5-P12WD-AP6X-H1141	M4653712	Washdown		5		
	12 mm - Embeddable/Nonembeddable, Plastic, eurofast Quick Disconnect 	Bi 2-S12-AD4X-H1141	T4453094		•	2	2-Wire DC
		Bi 2-S12-AN6X-H1141	T4652100		•	2	3-Wire DC NPN
Bi 3U-S12-AN6X-H1141		M1634620	Uprox	•	3		
Ni 4-S12-AN6X-H1141		T4652300			4		
Ni 8U-S12-AN6X-H1141		M1644620	Uprox		8	3-Wire DC PNP	
Bi 2-S12-AP6X-H1141		T4652000		•	2		
Bi 3U-S12-AP6X-H1141		M1634600	Uprox	•	3		
Ni 4-S12-AP6X-H1141		T4652200			4	2-Wire DC NAMUR	
Ni 8U-S12-AP6X-H1141		M1644600	Uprox		8		
Bi 2-S12-Y0X-H1141		T4030090			•	2	2-Wire DC NAMUR
Ni 5-S12-Y0X-H1141	T4030300				5		

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	2000	≤200	-10 to +85	IP 68, 69K	PA 12	PA 12	N/A	YE	RK 4T-*	2	Diagram 1
	2000	≤200	-10 to +85	IP 68, 69K	PA 12	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	2000	≤200	-10 to +85	IP 68, 69K	PA 12	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
	2000	≤200	-10 to +85	IP 68, 69K	PA 12	PA 12	N/A	YE	RK 4T-*	3	
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	Diagram 3
	3000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
	2000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	Diagram 4
	3000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	3	
5-30 VDC	5000	Remote	-25 to +70	IP 67	PA	PA	N/A	YE	RKK 4T-*	4	
	2000	Remote	-25 to +70	IP 67	PA	PA	N/A	YE	RKK 4T-*	4	



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* Length in meters.

For material descriptions see page M22.

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Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Embeddable, eurofast® Connection, Extended Barrel Length 	Bi 2-M12E-AD4X-H1141	T4406590		2	2-Wire Dc	
	Bi 3-M12E-AD4X-H1141	T4405080	Ext. Range	3		
	Bi 2-M12E-AN6X-H1141	T4606602			2	3-Wire DC NPN
	Bi 3NF-EM12HE-AN6X2-H1141	M1615003	Non-Ferrous	3		
	Bi 3U-EM12E-AN6X-H1141	M1634351	Uprox	3		
	Bi 3U-EM12HE-AN6X2-H1141	M1634311	Stoneface, Uprox	3		
	Bi 3U-EM12HE-AN6X2-H1141/S1589	M1634397	weldguard	3		
	Bi 3U-M12E-AN6X-H1141	M1634151	Uprox	3		
	Bi 4-M12E-AN6X-H1141	T4607193	Ext. Range	4		
	Bi 4-EM12HE-AN6X-H1141/S1589	T4607185	Ext. Range, weldguard	4		
	Bi 2-M12E-AP6X-H1141	T4606599			2	3-Wire DC PNP
	Bi 3NF-EM12HE-AP6X2-H1141	M1615001	Non-Ferrous	3		
	Bi 3U-EM12E-AP6X-H1141	M1634343	Uprox	3		
	Bi 3U-M12E-AP6X-H1141	M1634148	Uprox	3		
	Bi 3U-EM12HE-AP6X2-H1141	M1634310	Stoneface, Uprox	3		
	Bi 3U-EM12HE-AP6X2-H1141/S1589	M1634398	Uprox, weldguard	3		
	Bi 4-M12E-AP6X-H1141	T4608030	Ext. Range	4		
	Bi 4-EM12HE-AP6X-H1141/S1589	T4607184	Ext. Range, weldguard	4		
	Bi 2-M12E-VN6X-H1141	T1643080	Comp. Output		2	4-Wire DC NPN
	Bi 3U-M12E-VN4X-H1141	M1580354	Uprox	3		
	Bi 4-M12E-VN6X-H1141	T1643201	Ext. Range	4		
	Bi 2-M12E-VP6X-H1141	T1633080	Comp. Output		2	4-Wire DC PNP
	Bi 3U-M12E-VP4X-H1141	M1580252	Uprox	3		
	Bi 4-M12E-VP6X-H1141	T4608092	Ext. Range	4		
	Bi 2-M12E-Y0X-H1141	T4606490			2	2-Wire DC NAMUR
	12 mm - Embeddable, eurofast Connection, Extended Barrel Length, Stainless Steel 	Bi 2-EM12FE-AP6X-H1141	M4614536	Stainless Steel Front Cap	2	3-Wire DC PNP

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
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 2
	3000	≤200	0 to +60	IP 67	SS	SF	GN	YE	RK 4T-*	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKG 4T-*/S600	2	
	3000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKG 4T-*/S600	2	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*/S600	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 3
	3000	≤200	0 to +60	IP 67	SS	PA 12	GN	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKG 4T-*/S600	3	
	3000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKG 4T-*/S600	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*/S600	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 4
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 5
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
5-30 VDC	5000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	Diagram 6
10-30 VDC	180	≤200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	3	

* Length in meters.

For material descriptions see page M22.

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Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<p>12 mm - Embeddable, <i>euromast</i>® Connection, Teflon Coated Sensors</p>	Bi 3-MT12H-AD4X-H1141/S1589	T4405082	<i>weldguard</i>	3	2-Wire DC
	Bi 3-MT12H-AD4X-H1144/S1589	T4405084	<i>weldguard</i>	3	
	Bi 3U-MT12-AN6X-H1141	M1634250	<i>Uprox</i>	3	3-Wire DC NPN
	Bi 4-MT12H-AN6X-H1141	T4607194	<i>Ext. Range, Stoneface</i>	4	
	Bi 4-MT12H-AN6X-H1141/S1589	T4607188	<i>Ext. Range, weldguard</i>	4	
	Bi 2-MT12-AP6X-H1141/S34	M1669020	<i>Weld-field Immune</i>	2	3-Wire DC PNP
	Bi 3U-MT12-AP6X-H1141	M1634240	<i>Uprox</i>	3	
	Bi 3U-MT12-AP6X2-H1141	M1634245	<i>Uprox, Dual-Color LED</i>	3	
	Bi 3U-MT12H-AP6X-H1141	M1634212	<i>Uprox, Stoneface</i>	3	
	Bi 3U-MT12H-AP6X-H1141/S1589	M1634294	<i>Ext. Range, weldguard</i>	3	
	Bi 3U-MT12H-AP6X2-H1141/S1589	M1634293	<i>weldguard</i>	3	
	Bi 4-MT12H-AP6X-H1141	T4607093	<i>Ext. Range, Stoneface</i>	4	
	Bi 4-MT12H-AP6X-H1141/S1589	T4607099	<i>Ext. Range, weldguard</i>	4	
	Bi 2-MT12-Y0X-H1141	T4010093		2	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
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.2T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.2T-*/S674	2	
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	Diagram 2
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKG 4T-*/S600	3	
	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKG 4T-*/S600	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4T-*	4	Diagram 3
	3000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	
	3000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4	
	3000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RKG 4T-*/S600	4	
	3000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKG 4T-*/S600	4	
	3000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKG 4T-*/S600	4	
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKG 4T-*/S600	4	
	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKG 4T-*/S600	4	
5-30 VDC	5000	Remote	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4.21T-*	5	Diagram 4
Diagram 5 											

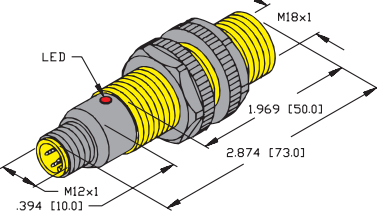
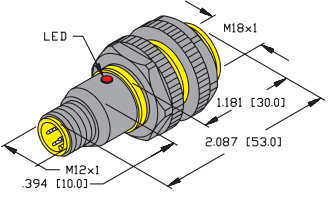
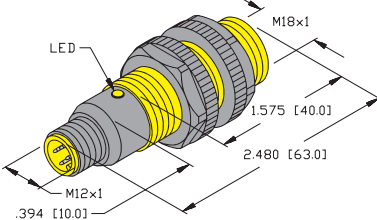
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* Length in meters

For material descriptions see page M22.

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Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast® Connection 	Bi 5-S18-AD4X-H1141	T4452400		•	5	2-Wire DC	
	Ni 8-S18-AD4X-H1141	T4452600			8		
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast Connection 	Bi 5-S18-AN6X-H1141	T4652500		•	5	3-Wire DC NPN	
	Ni 8-S18-AN6X-H1141	T4652700			8		
	Bi 5-S18-AP6X-H1141	T4652400			•	5	3-Wire DC PNP
	Ni 8-S18-AP6X-H1141	T4652600				8	
	Bi 5-S18-VP4X-H1141	T1513401	<i>Comp. Output</i>	•	5		4-Wire DC PNP
	Bi 5-S18-Y0X-H1141	T4036095		•	5	2-Wire NAMUR	
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast Connection 	Bi 5U-S18-AN6X-H1141	M1635620	<i>Uprox</i>	•	5	3-Wire DC NPN	
	Ni 12U-S18-AN6X-H1141	M1645620	<i>Uprox</i>		12		
	Bi 5U-S18-AP6X-H1141	M1635600	<i>Uprox</i>	•	5	3-Wire DC PNP	
	Ni 12U-S18-AP6X-H1141	M1645600	<i>Uprox</i>		12		

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



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	Diagram 1
	500	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	Diagram 3
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.4T-*	4	Diagram 4
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.21T-*	5	Diagram 5
10-30 VDC	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	2	Diagram 4
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
10-30 VDC	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	Diagram 5
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	



Barrels

* Length in meters.

For material descriptions see page M22.