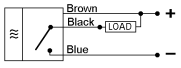
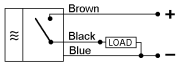
Output Function	NPN, NO	T12-D310-F	T12-D360-F	T12-D318-F	T12-D368-F
	PNP, NO	T12-D410-F	T12-D460-F	T12-D418-F	T12-D468-F
	NPN, NC			T12-D518-F	T12-D568-F
	PNP, NC			T12-D618-F	T12-D668-F
	NPN, Complementary	T12-D010-F	T12-D060-F	T12-D018-F	T12-D068-F
	PNP, Complementary	T12-D710-F	T12-D760-F	T12-D718-F	T12-D768-F

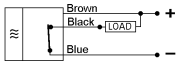
12 mm Diameter
Threaded body with cable or integral connector to simplify installation. LED indicators on all models. Short circuit and reverse polarity protection standard on three-wire models. Available with complementary NO and NC outputs. These models conform to EN 50008-EN50044 and meet the CE EMC directive.



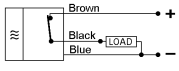
NPN, NO



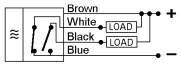
PNP, NO



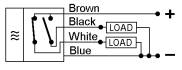
NPN, NC



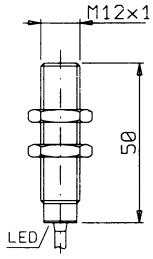
PNP, NC

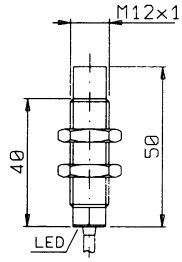


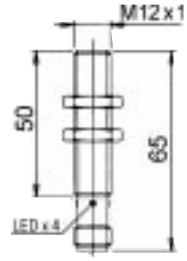
NPN, Complementary

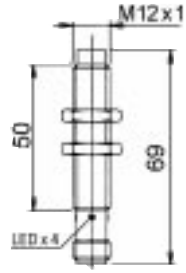


PNP, Complementary





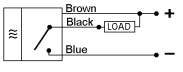




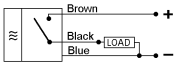
Operating Distance	2.0 mm	4.0 mm	2.0 mm	4.0 mm
Power Supply	10 - 30 VDC			
Power Drain	< 5 mA		< 18 mA	
Voltage Drop (on state)	< 3 V		< 1.8 V	
Switching Current (max)	200 mA			
Short Circuit Protection	Yes (3 wire only)			
Operating Frequency	1.0 kHz max.			
Repeatability	not specified		< 0.01 mm	
Case	Nickel-plated Brass			
Flush Mounting	Yes	No	Yes	No
Protection Degree	IP 67			
Operating Temperature	-25°C to +70°C			
Output Connection	Cable: PVC, 22 AWG, 2 m long		Connector - RP-526	

Output Function	NPN, NO	T12-D310S-F	T12-D360S-F	T12-D318S-F	T12-D368S-F
	PNP, NO	T12-D410S-F	T12-D460S-F	T12-D418S-F	T12-D468S-F
	NPN, Complementary	T12-D010S-F	T12-D060S-F	T12-D018S-F	T12-D068S-F
	PNP, Complementary	T12-D710S-F	T12-D760S-F	T12-D718S-F	T12-D768S-F

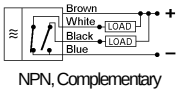
12 mm Diameter Short Body Threaded body with cable or integral connector to simplify installation. This series features greater miniaturization, increased sensing distance and 5V logic compatibility. LED indicators on all models. Available with complementary NO and NC outputs.



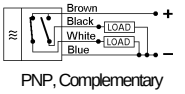
NPN, NO



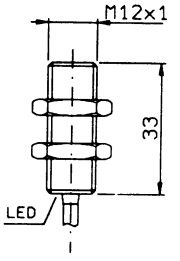
PNP, NO

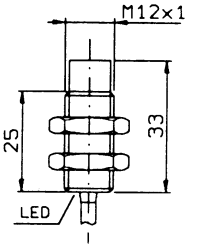


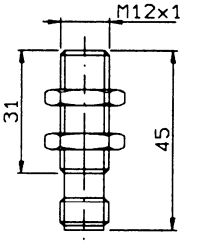
NPN, Complementary

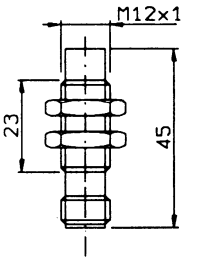


PNP, Complementary





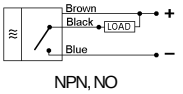




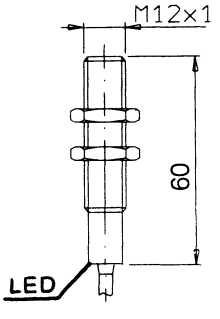
Operating Distance	3.0 mm	5.0 mm	3.0 mm	5.0 mm
Power Supply	5 - 30 VDC			
Power Drain	< 10 mA			
Voltage Drop (on state)	< 1.7 V			
Switching Current (max)	200 mA max.			
Short Circuit Protection	No			
Operating Frequency	1 kHz max.			
Repeatability	not specified			
Case	Nickel -Plated Brass			
Flush Mounting	Yes	No	Yes	No
Protection Degree	IP 67			
Operating Temperature	-25°C to +75°C			
Output Connection	Cable: PVC, 22 AWG, 2 m long		Connector - RP-526	

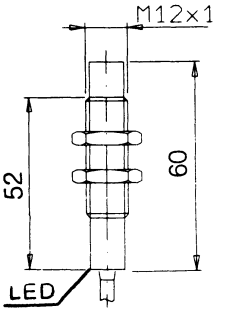
Output Function	NPN, NO	TT12-D310-F	TT12-D360-F

12 mm Diameter Threaded body with cable or integral connector to simplify installation. 5 to 30 V range permits operation on most DC systems. Low voltage drop insures TTL compatiblity.



NPN, NO

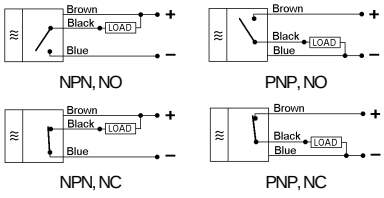


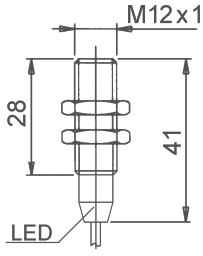


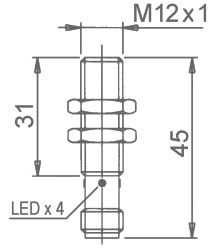
Operating Distance	2.0 mm	4.0 mm
Power Supply	5 - 30 VDC	
Power Drain	6 mA	
Voltage Drop (on state)	< 0.7 V	
Switching Current (max)	150 mA max.	
Short Circuit Protection	No	
Operating Frequency	2.0 kHz	1.0 kHz
Repeatability	not specified	
Case	Nickel-Plated Brass	
Flush Mounting	Yes	No
Protection Degree	IP 67	
Operating Temperature	-25°C to +70°C	
Output Connection	Cable: PVC, 22 AWG, 2 m long	

Output Function	NPN, NO	XT12-D310-F	XT12-D318-F
	PNP, NO	XT12-D410-F	XT12-D418-F
	NPN, NC	XT12-D510-F	XT12-D518-F
	PNP, NC	XT12-D610-F	XT12-D618-F

12 mm Diameter Extended Operating Distance Threaded body with cable or integral connector to simplify installation.





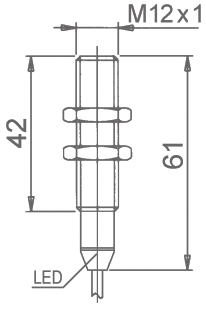


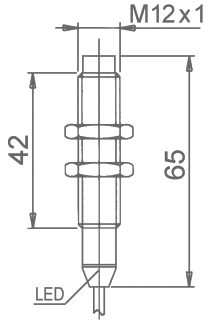
Operating Distance	4.0 mm
Power Supply	10 - 30 VDC
Power Drain	< 18 mA
Voltage Drop (on state)	< 1.8 V
Switching Current (max)	200 mA max.
Short Circuit Protection	Yes
Operating Frequency	1.0 kHz max.
Repeatability	< 0.01 mm
Case	Stainless Steel
Flush Mounting	Yes
Protection Degree	IP 67
Operating Temperature	-25°C to +70°C
Output Connection	Cable: PVC, 22 AWG, 2 m long / Connector - RP-526

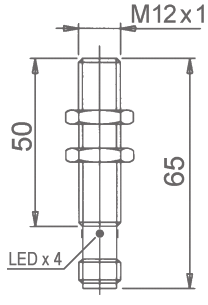
Output Function	NO	T12-D810-F	T12-D860-F	T12-D818-F	T12-D868-F
	NC	T12-D910-F	T12-D960-F	T12-D918-F	T12-D968-F

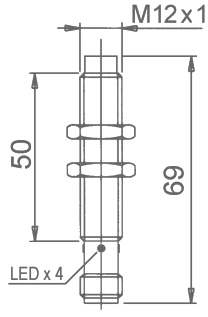
12 mm Diameter DC Two Wire Threaded body with cable or integral connector to simplify installation. Simple two wire connection. LED indicators on all models. Short circuit and reverse polarity protection standard. These models conform to EN 50008-EN50044 and meet the CE EMC directive.











Operating Distance	2.0 mm	4.0 mm	2.0 mm	4.0 mm
Power Supply	10 - 30 VDC			
Max. Switching Current	100 mA			
Min. Switching Current	< 1.5 mA			
Leakage Current	< 0.6 mA			
Voltage Drop (on state)	< 6.5 V			
Switching Current (max)	1 kHz max.			
Short Circuit Protection	Yes			
Operating Frequency	1.0 kHz			
Repeatability	< 0.01 mm			
Case	Nickel-plated Brass			
Flush Mounting	Yes	No	Yes	No
Protection Degree	IP 67			
Operating Temperature	-25°C to +70°C			
Output Connection	Cable: PVC, 22 AWG, 2 m long		Connector - RP-526	