

TEKNIC EUCHNER

Inductive Proximity Switches



TEKNIC EUCHNER is a joint venture between EUCHNER Germany and TEKNIC India. EUCHNER was founded in 1940 and TEKNIC in 1970. EUCHNER has been a pioneer in the field of multiple position switches. As early as 1952, the world's first multiple limit switch was produced by EUCHNER.

TEKNIC was started in 1970 and has pioneered the development of high quality electromechanical products ever since 1980. The joint venture TEKNIC EUCHNER was approved by the Government of India in 1989. The joint venture TEKNIC EUCHNER ELECTRONICS PVT LTD, established in Bangalore, with technology transfer from EUCHNER Germany, has started manufacturing a product range to start with inductive proximity switches, single and multiple limit switches with the intention to produce the full range of EUCHNER products. The buzzword is reliability, precision and quality backed by continual testing and maintenance of high quality with the aid of computer controlled inspection systems. The manufacturing facilities of TEKNIC EUCHNER are backed by a competent marketing set up and committed selling partners.



Manufacturing Works - Bangalore

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Built for extreme conditions

The TEKNIC EUCHNER Inductive Proximity Switches are solid state switching devices which require no physical contact to actuate them.

Used for control and positioning signals, they can be connected directly into conventional or electronic control systems. The need for such switching devices has increased in recent times as manufacturing plants, as well as machines in general have become more automated. The combination of high quality materials and advanced technology in the construction of these switches ensures a very high degree of precision and reliability under the most arduous conditions.

The main advantages for inductive proximity switches are :

exceptionally **long life** and **high switching speeds** (up to 5 million per hour) ;

no-touch, zero, operation force (no actuator or plunger required) ;

wear and maintenance free operation (solid state, no moving parts) ;

bounce free signals (no spurious signals through contact bounce) ;

reliable switching under extreme conditions.

Fully waterproof (insensitive to strong vibrations, dirty environments, rapid temperature changes).

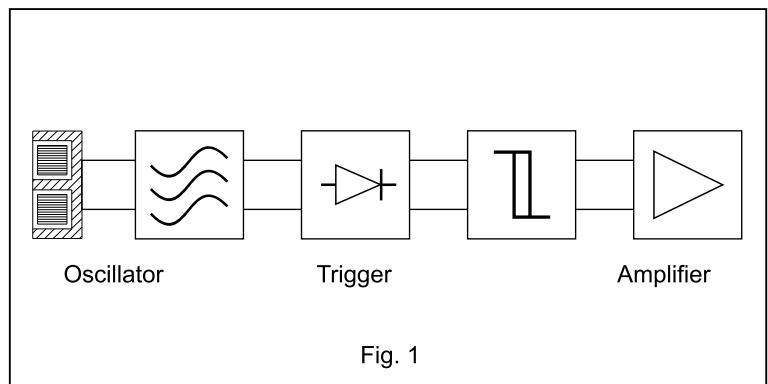
The following details in this catalogue include all dimensional and technical data describing in detail all the most interesting features of the TEKNIC EUCHNER range of inductive proximity switches. Please note for special applications TEKNIC EUCHNER are willing to develop switches to customer specifications subject to economical batch quantities.

The Switch Concept. Design, Function and Definitions.

Design and Function. : The electronic Inductive Proximity switch comprises of three principle Parts :

1) The oscillator. 2) A trigger stage and 3) amplifier stage (see figure 1)

The Oscillator generates, with its coil, a high frequency electromagnetic field of approximately spherical distribution. Any metallic object introduced into this field absorbs energy from the oscillator by induced eddy currents. This reduces the amplitude of the oscillations and this change triggers the out put stage. **This type of oscillator will respond to any type of metal.**



Definitions :

Sensing Face. : The sensing face of an inductive proximity switch is the surface from which the electromagnetic field radiates. The sensing faces of the TEKNIC EUCHNER inductive proximity switches are clearly marked with a system of colours or rings.

Sensing Distances.

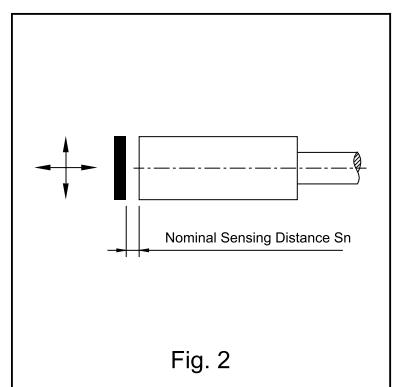
The **sensing distance** is the maximum distance between the target and the sensing face to be sure of obtaining a switching signal. This distance is measured using a square mild steel (St 37) target 1 mm in thickness. The sides of the square target should be equal to the diameter of the sensing face of the inductive proximity switch (EN 50 010).

The **Nominal sensing distance Sn** is a reference dimension only and does not take into account temperature or voltage variations.

The **Effective sensing distance Sr** is the distance measured at nominal voltage and ambient temperature. ($0.9 Sn \leq Sr \leq 1.1 Sn$)

The **Usable sensing distance S** measured within a given voltage and temperature range. ($0.9 Sr \leq S \leq 1.1 Sr$)

The **Working sensing distance** is every sensing distance which guarantees operation under given temperature and voltage conditions. This distance can be selected between 0 and the usable sensing distance.



Reduction Factor.

If the target of the inductive proximity switch is manufactured from a material other than mild steel (St 37) or if the target varies in thickness and area from the standard target, then the sensing distance will vary.

Material	Reduction Factor
Steel (St.37)	1.0
Brass	0.35...0.5
Copper	0.25...0.45
Aluminium	0.35...0.5
Stainless Steel	0.60...1.0

Repeat Accuracy.

The repeat accuracy is the reproduction accuracy between two successive operations under the same ambient conditions.

Switch Hysteresis.

The Switch hysteresis is the difference between the switch ON point, when the target approaches the sensing face of the inductive proximity switch and the switch OFF point, when the target moves away from the sensing face. (see fig.3). The graphs shown in figure 4 indicate the Switch ON and Switch OFF points of various switches when the target approaches the switch in a radial direction in relation with the axial distance of the target from the sensing face.

Temperature Drift.

The temperature drift is the change in switch point in m/K due to variations in ambient temperature conditions when all other conditions remain constant.

Installation.

The TEKNIC EUCHNER inductive proximity switches are suitable for **flush fitting** or **non-flush fitting**.

Flush Fitting. Inductive proximity switches intended for flush fitting are not affected by surrounding metal and can be installed immediately adjacent to metal surfaces. (see figure 5)

Non-flush fitting. Inductive proximity switches not intended for flush fitting can be affected by surrounding metal surfaces and must be installed with a metal free zone or non-damping material adjacent to the sensing face. (see figure 6)

Important Fitting Instructions.

Inductive proximity switches with threaded housings are clamped in position using two nuts. If these nuts are over tightened it is possible to damage the switch housing.

For this reason care should be taken that tightening torques mentioned below should not be exceeded.

Models	Max. Tightening Torque (Nm)
EGT08	12
EGT12	28
EGT18	40
EGT30	40

The Inductive Proximity Switch in Practice Electrical Characteristics.

Voltages.

The TEKNIC EUCHNER inductive proximity switches are designed for AC or DC operation. Refer to technical data in this catalogue for specific details of voltages ranges for the individual switch types.

The operating voltage is the voltage which can be used to operate the inductive proximity switch.

Note : Two wire proximity switches must only be used in series with the load.

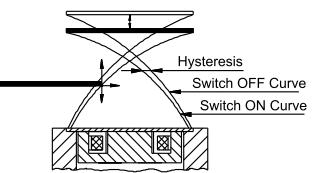


Fig. 3

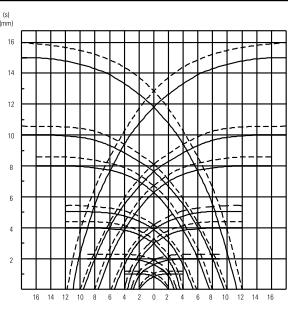


Fig. 4

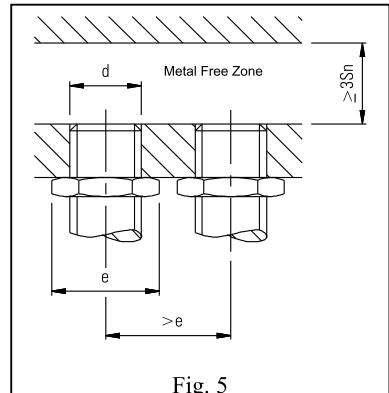


Fig. 5

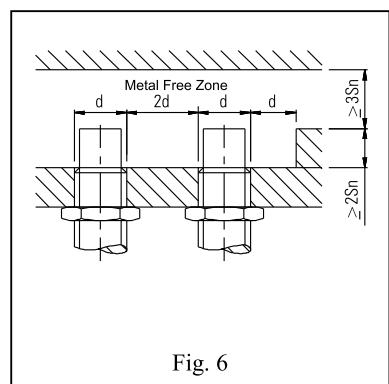


Fig. 6

The Voltage Drop U_d is the voltage measured between the energized output and the switched potential at the rated current I_a of the switch

Ripple voltage.

The ripple voltage is the AC voltage U_{Br} (peak to peak) superimposed on the mean DC voltage U expressed as a percentage. (see figure 7) The provision of smooth DC supply within 10% (to DIN 41755) maximum ripple is absolutely essential for effective operation DC switches. When using a single phase rectified supply the appropriate smoothing capacitor should be used.

$$U_{Br}/U \cdot 100 [\%]$$

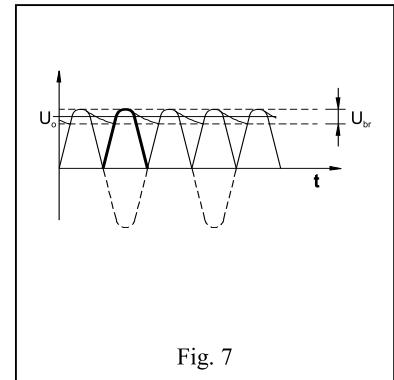


Fig. 7

Currents.

The Load Current I_a is the maximum current at which the inductive proximity switch can be continuously operated.

The Inrush Current I_k is the maximum current which can flow, from the moment that the switch is on, for a specified time.

The No-load Current is the current consumed by the switch at the maximum operating voltage without there being any external load current.

The Residual Current I_r is the current which flows through the load even when the switch is in its blocked state. In practice this is only to be considered for two wire switches.

Holding Current I_h is the least current necessary to ensure correct functioning of an actuated 2 Wire switch.

Switch frequency.

The Switch frequency is the maximum number of switching functions per second. The method of measurement must conform to EN 50010. Refer to the technical data in this catalogue which indicates the maximum switching frequencies for each individual type of switch.

The methods of protection.

The TEKNIC EUCHNER inductive proximity switches have an environmental protection to IP67 to DIN 40050. The following methods protection ensure particularly reliable operation for all users of TEKNIC EUCHNER inductive proximity switches.

The short circuit protection. Switches with built-in short circuit and overload protection are protected against damage to the output stage. Pulsed short circuit protection is used in which the output transistor is switched OFF and ON in quick succession. This enables the switch to function normally on removal of the short circuit condition.

Reverse polarity protection. The inductive proximity switches are protected against damage due to inverted supply line connection.

The transient voltage protection. The TEKNIC EUCHNER inductive proximity switches are protection against damage caused by supply line transient voltages. In order to prevent unusually high transient voltages which can destroy the switch or activate the short circuit protection, **the supply line should be separated from cables which carry high currents for motors, clutches and magnets.** If in doubt, please contact our technical personnel.

Power Supply.

The provision of a smoothed D.C. operating voltage with a maximum ripple of 10% is essential for the effective operation of D.C. proximity switches. The circuit shown in figure 8 is a suggestion for loads up to 1000mA.

Load Current (mA)	C rating in F
200	1000
500	2200
1000	4700

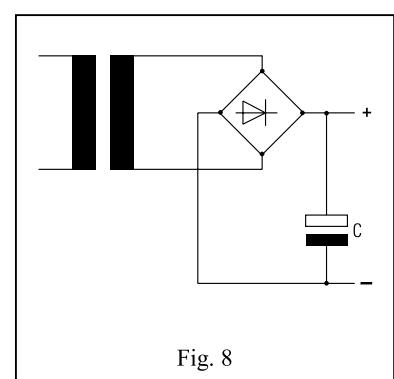


Fig. 8

Testing Suggestions : When testing inductive proximity switches, normal filament lamps must never be used without an additional series resistor. This is important because when a filament lamp is cold it has a very low resistance and hence a high inrush current. This can destroy the proximity switch. We recommend for testing a voltmeter or preferably an oscilloscope.

Series and Parallel Connection of Proximity Switches :

Series Connection of 3 and 4 Wire DC switches (AND Logic) : Used when it is necessary to obtain two or more corresponding signals before an action is carried out. It is necessary to take into account the voltage drop U_d present at the output of each switch which will reduce the voltage available at the load correspondingly.(see fig.9)

Parallel Connection of 3 and 4 Wire DC switches (OR Logic) : Used when any one of the switches are required to activate the load. (see fig.10)

Series Connection of 2 Wire AC and DC switches

(AND Logic) : see note above for Series connection of 3 and 4 wire switches.(see fig.11)

Parallel Connection of 2 Wire AC and DC switches

(OR Logic) : It is necessary to take into account the cumulative no-load currents of each of the switches which would flow through the Load in the unactuated condition of the switch. This could under circumstances trigger off the load without actually operating the switch.(see fig.12)

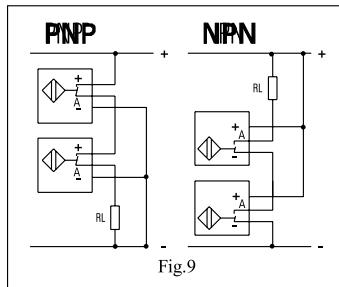


Fig.9

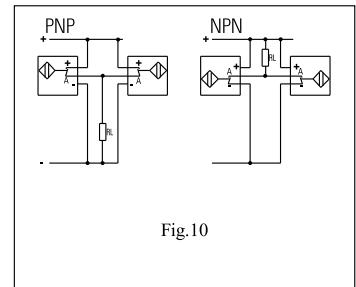


Fig.10

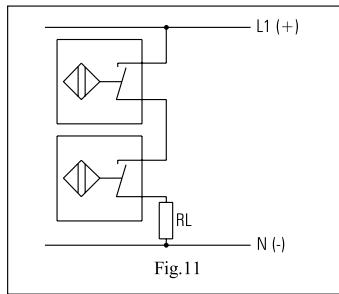


Fig.11

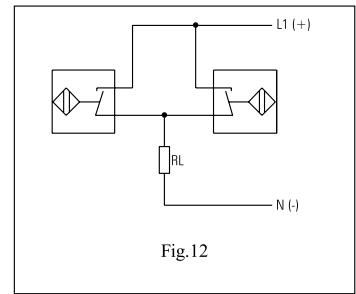
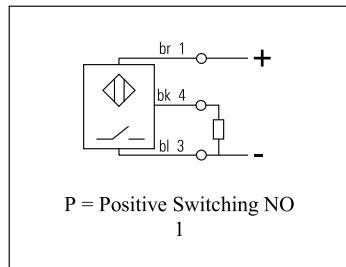
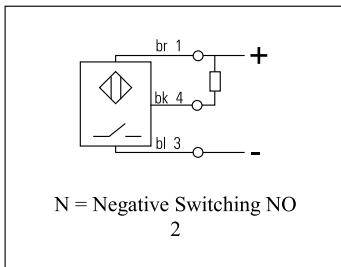
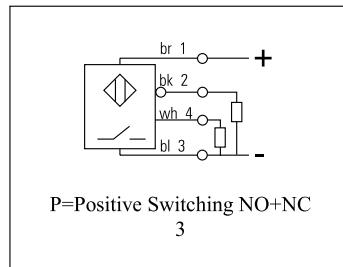
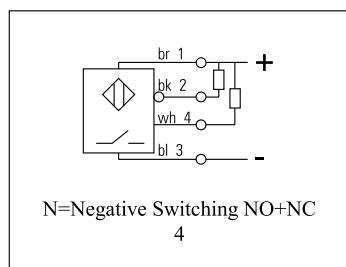
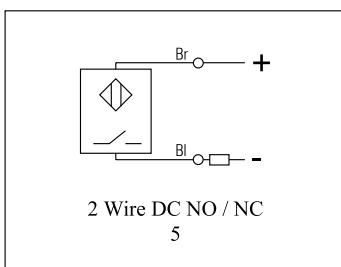
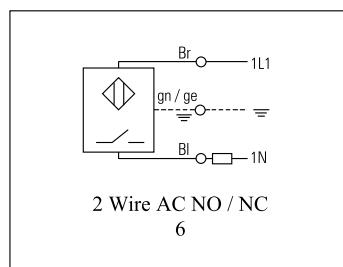
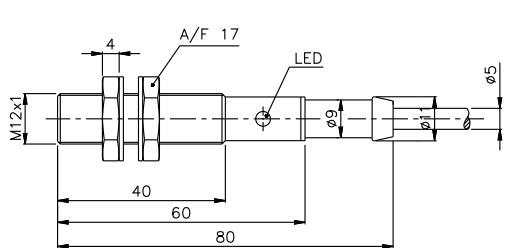
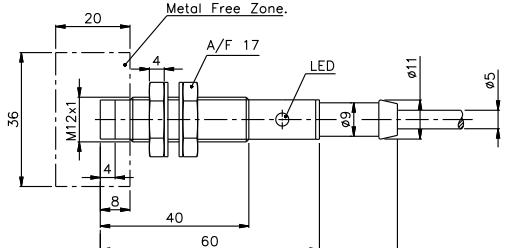


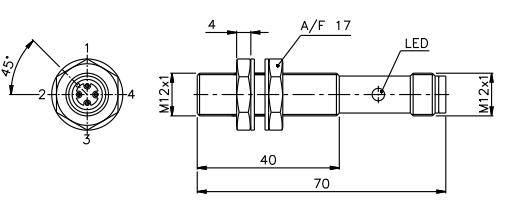
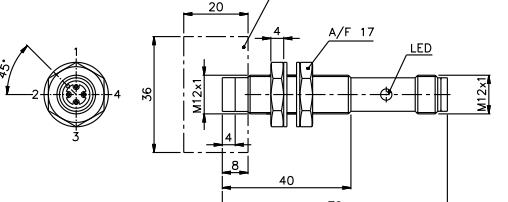
Fig.12

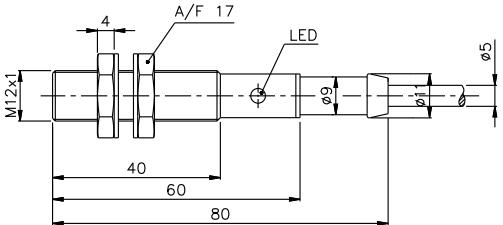
Connection Diagrams .P = Positive Switching NO
1N = Negative Switching NO
2P=Positive Switching NO+NC
3N=Negative Switching NO+NC
42 Wire DC NO / NC
52 Wire AC NO / NC
6

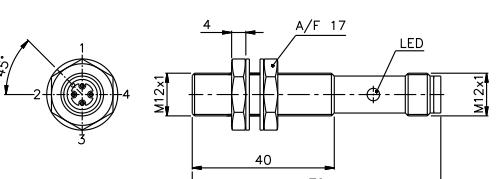
Cylindrical Housing M8 x 1 EGT Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT08X01	Type : EGT08X1,5
DC Operating Voltage		DC Operating Voltage
Housing Material	Stainless Steel	Stainless Steel
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.14	0.14
Sensing Distance Sn (mm)	Flush Fitting = 1	Flush Fitting = 1.5
Switch Point Hysteresis H (mm) ≤	0.15	0.2
Repeat Accuracy (mm) ≤	0.05	0.1
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	11	11
Voltage Drop Ud (V) ≤	1.3	1.3
Internal Resistance Ri (KΩ)	10	10
Temperature Drift S (μm/K) ≤	± 3	± 3
Switching Frequency (Hz)	2000	2000
Output Polarity	PNP	NPN
Output Function	A=NO	A=NO
Connection Diagram	1	2
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

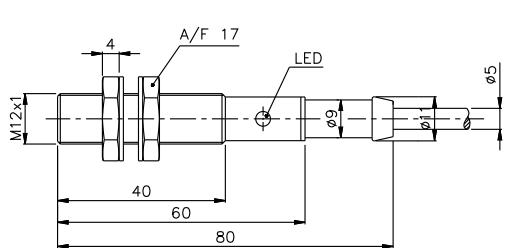
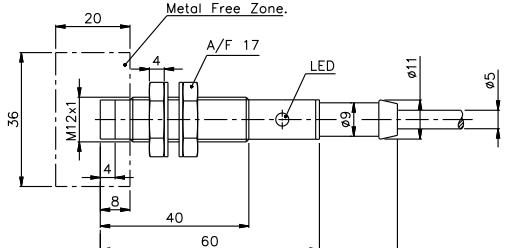
Cylindrical Housing M8 x 1 EGT Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT08X01-SEM4	Type : EGT08X1,5-SEM4
DC Operating Voltage		DC Operating Voltage
Housing Material	Stainless Steel	Stainless Steel
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 1	Flush Fitting = 1.5
Switch Point Hysteresis H (mm) ≤	0.15	0.2
Repeat Accuracy (mm) ≤	0.05	0.1
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	11	11
Voltage Drop Ud (V) ≤	1.3	1.3
Internal Resistance Ri (KΩ)	10	10
Temperature Drift S (μm/K) ≤	± 3	± 3
Switching Frequency (Hz)	2000	2000
Output Polarity	PNP	NPN
Output Function	A=NO	A=NO
Connection Diagram	1	2
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

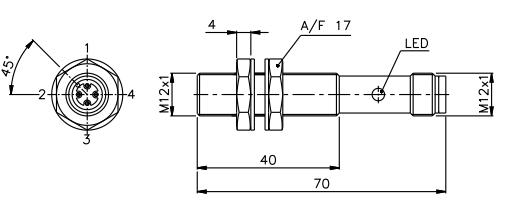
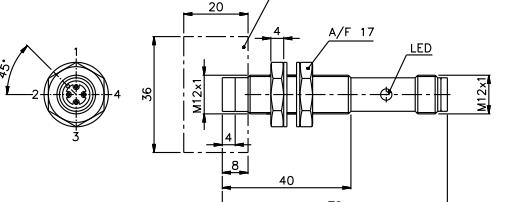
Cylindrical Housing M12 x 1 EGT Version 3 / 4 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT12X02	Type : EGT12X04
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	1000	1000
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

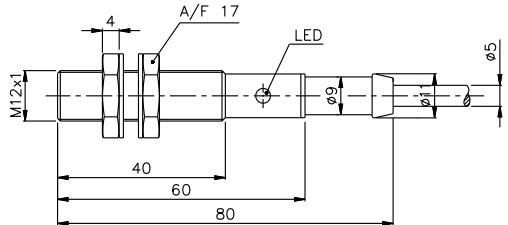
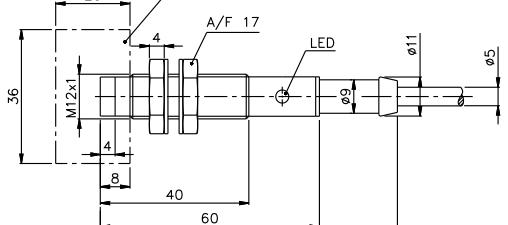
Cylindrical Housing M12 x 1 EGT Version 3 / 4 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT12X02-SEM4	Type : EGT12X04-SEM4
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	1000	1000
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M12 x 1 EGT Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGT12B04						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000						
Conductor Cross Section (mm ²)	0.34						
Sensing Distance Sn (mm)	Flush Fitting = 4						
Switch Point Hysteresis H (mm) ≤	0.4						
Repeat Accuracy (mm) ≤	0.2						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (μm/K) ≤	± 8						
Switching Frequency (Hz)	1000						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

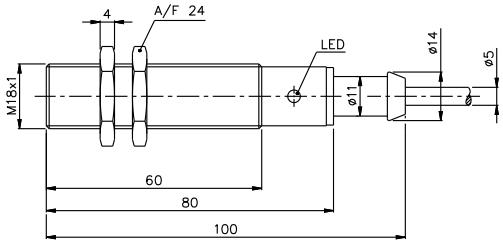
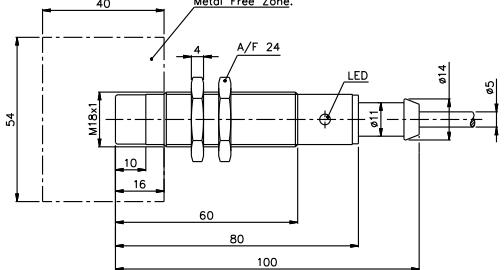
Cylindrical Housing M12 x 1 EGT Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGT12B04-SEM4						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Plug and Socket						
Cable Length (mm)	-						
Conductor Cross Section (mm ²)	-						
Sensing Distance Sn (mm)	Flush Fitting = 4						
Switch Point Hysteresis H (mm) ≤	0.4						
Repeat Accuracy (mm) ≤	0.2						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (μm/K) ≤	± 8						
Switching Frequency (Hz)	1000						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

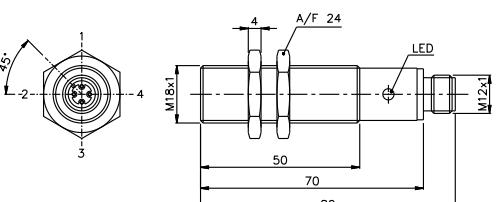
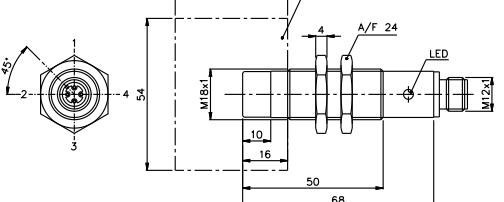
Cylindrical Housing M12 x 1 EGT Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT12X02-AD/RD	Type : EGT12X04-AD/RD
Housing Material	DC Operating Voltage	DC Operating Voltage
Environmental Protection	Brass Nickel Plated	Brass Nickel Plated
Mounting Position	IP67	IP67
Operating Temperature (deg.C)	Optional	Optional
-25 to +70	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	400	400
Output Polarity	-	-
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

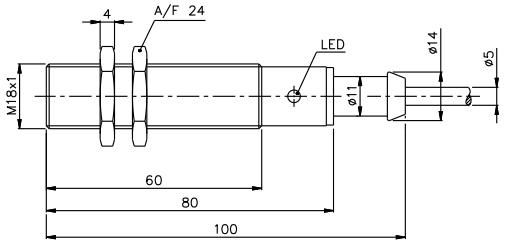
Cylindrical Housing M12 x 1 EGT Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT12X02-SEM4-AD/RD	Type : EGT12X04-SEM4-AD/RD
Housing Material	DC Operating Voltage	DC Operating Voltage
Environmental Protection	Brass Nickel Plated	Brass Nickel Plated
Mounting Position	IP67	IP67
Operating Temperature (deg.C)	Optional	Optional
-25 to +70	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	400	400
Output Polarity	-	-
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

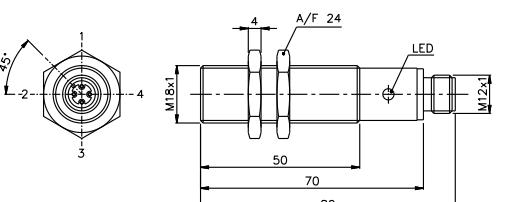
Cylindrical Housing M12 x 1 EGT Version 2 Wire A.C. Standard Switching Distance		
Technical Data	Type : EGT12X02AW	Type : EGT12X04AW
AC Operating Voltage		AC Operating Voltage
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.5	0.5
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.4	0.6
Repeat Accuracy (mm) ≤	0.1	0.4
Operating Voltage (V)	90-250	90-250
Load Current Ia (mA) max	250	250
Inrush Current Ik (A) 20 ms	1.5	1.5
Residual Current Ir (mA)	≤ 3	3
Holding Current Ih (mA)	≥ 10	10
Voltage Drop Ud (V)	≤ 9 (90-250 V)	9 (90-250 V)
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (µm/K)	≤ ± 4	± 8
Switching Frequency (Hz)	10	10
Output Polarity	-	-
Output Function	A=NO	R=NC
Connection Diagram	6	6
Short Circuit Protection	no	no
Status Indication	LED (see ordering code)	
Cylindrical Housing M12 x 1 EGT Version 2 Wire A.C. Standard Switching Distance		

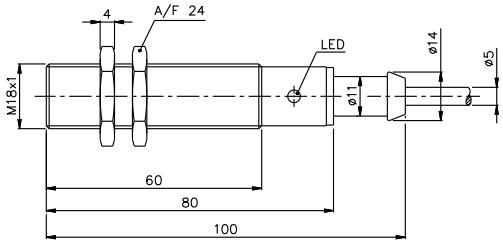
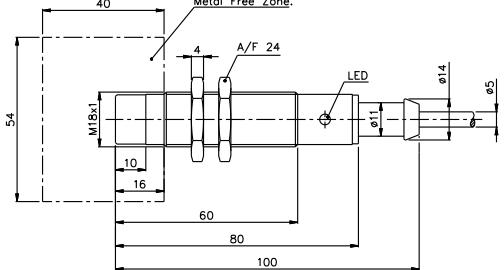
Cylindrical Housing M12 x 1 EGT Version 2 Wire A.C. Standard Switching Distance			
Technical Data			
Housing Material			
Environmental Protection			
Mounting Position			
Operating Temperature (deg.C)			
Connection			
Cable Length (mm)			
Conductor Cross Section (mm ²)			
Sensing Distance Sn (mm)			
Switch Point Hysteresis H (mm) ≤			
Repeat Accuracy (mm) ≤			
Operating Voltage (V)			
Load Current Ia (mA) max			
Inrush Current Ik (A) 20 ms			
Residual Current Ir (mA)			
Holding Current Ih (mA)			
Voltage Drop Ud (V)			
Internal Resistance Ri (KΩ)			
Temperature Drift S (µm/K)			
Switching Frequency (Hz)			
Output Polarity			
Output Function			
Connection Diagram			
Short Circuit Protection			
Status Indication	LED (see ordering code)		

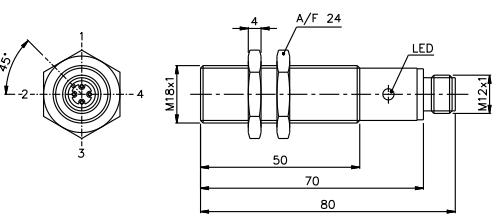
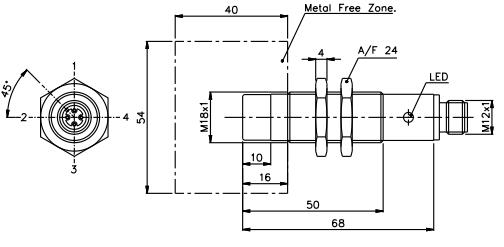
Cylindrical Housing M18 x 1 EGT Version 3 / 4 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT18X05	Type : EGT18X08
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) \leq	0.5	0.8
Repeat Accuracy (mm) \leq	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) \leq	10	10
Load Current I _a (mA) max	250	250
Residual Current I _r (mA) \leq	0.001	0.001
No-Load Current (mA) \leq	15	15
Voltage Drop U _d (V) \leq	2.5	2.5
Internal Resistance R _i (K Ω)	4.7	4.7
Temperature Drift S ($\mu\text{m}/\text{K}$) \leq	± 10	± 16
Switching Frequency (Hz)	500	500
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

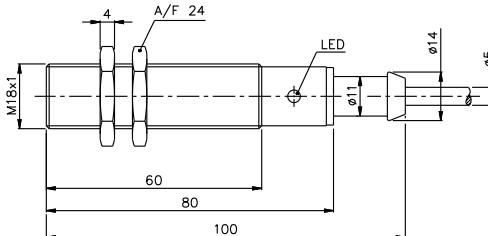
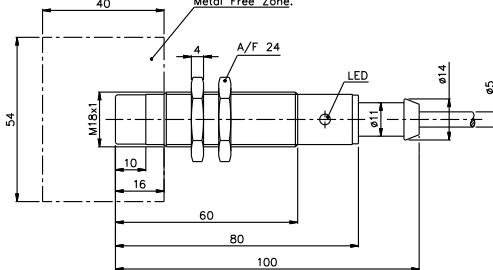
Cylindrical Housing M18 x 1 EGT Version 3 / 4 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT18X05-SEM4	Type : EGT18X08-SEM4
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) \leq	0.5	0.8
Repeat Accuracy (mm) \leq	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) \leq	10	10
Load Current I _a (mA) max	250	250
Residual Current I _r (mA) \leq	0.001	0.001
No-Load Current (mA) \leq	15	15
Voltage Drop U _d (V) \leq	2.5	2.5
Internal Resistance R _i (K Ω)	4.7	4.7
Temperature Drift S ($\mu\text{m}/\text{K}$) \leq	± 10	± 16
Switching Frequency (Hz)	500	500
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M18 x 1 EGT Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGT18B08						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000						
Conductor Cross Section (mm ²)	0.34						
Sensing Distance Sn (mm)	Flush Fitting = 8						
Switch Point Hysteresis H (mm) ≤	0.8						
Repeat Accuracy (mm) ≤	0.4						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (μm/K) ≤	± 12						
Switching Frequency (Hz)	500						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

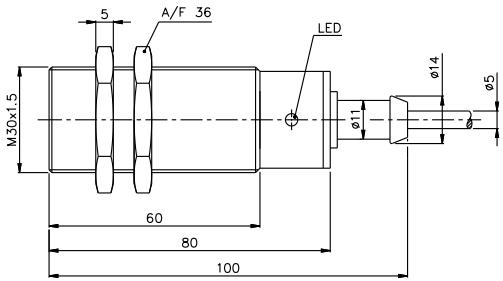
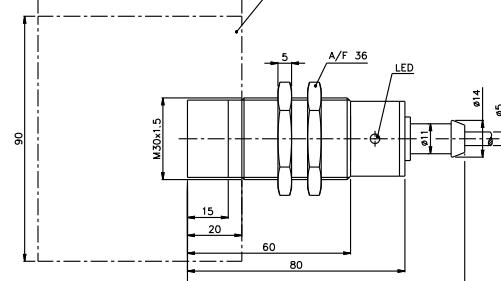
Cylindrical Housing M18 x 1 EGT Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGT18B08-SEM4						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Plug and Socket						
Cable Length (mm)	-						
Conductor Cross Section (mm ²)	-						
Sensing Distance Sn (mm)	Flush Fitting = 8						
Switch Point Hysteresis H (mm) ≤	0.8						
Repeat Accuracy (mm) ≤	0.4						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (μm/K) ≤	± 12						
Switching Frequency (Hz)	500						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

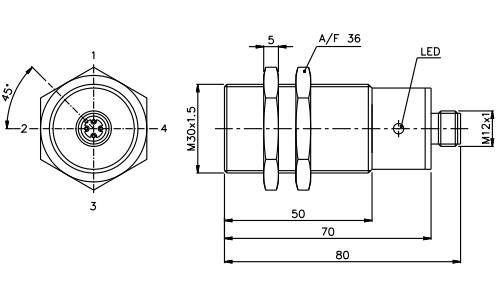
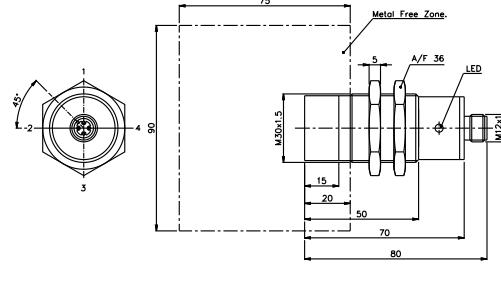
Cylindrical Housing M18 x 1 EGT Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT18X05-AD/RD	Type : EGT18X08-AD/RD
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (μm/K) ≤	± 10	± 16
Switching Frequency (Hz)	200	200
Output Polarity		
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M18 x 1 EGT Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT18X05-SEM4-AD/RD	Type : EGT18X08-SEM4-AD/RD
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (μm/K) ≤	± 10	± 16
Switching Frequency (Hz)	200	200
Output Polarity		
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	

Cylindrical Housing M18 x 1 EGT Version 2 Wire A.C. Standard Switching Distance		
Technical Data	Type : EGT18X05 AW / RW	Type : EGT18X08 AW / RW
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.5	0.5
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	90-250	90-250
Load Current Ia (mA) max	250	250
Inrush Current Ik (A) 20 ms	1.5	1.5
Residual Current Ir (mA)	≤ 3	3
Holding Current Ih (mA)	≥ 10	10
Voltage Drop Ud (V)	≤ 9 (90-250 V)	9 (90-250 V)
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (µm/K)	≤ ± 10	± 16
Switching Frequency (Hz)	10	10
Output Polarity	-	-
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	6 6	6 6
Short Circuit Protection	no no	no no
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M18 x 1 EGT Version 2 Wire A.C. Standard Switching Distance		
Technical Data		
Housing Material		
Environmental Protection		
Mounting Position		
Operating Temperature (deg.C)		
Connection		
Cable Length (mm)		
Conductor Cross Section (mm ²)		
Sensing Distance Sn (mm)		
Switch Point Hysteresis H (mm) ≤		
Repeat Accuracy (mm) ≤		
Operating Voltage (V)		
Load Current Ia (mA) max		
Inrush Current Ik (A) 20 ms		
Residual Current Ir (mA)		
Holding Current Ih (mA)		
Voltage Drop Ud (V)		
Internal Resistance Ri (KΩ)		
Temperature Drift S (µm/K)		
Switching Frequency (Hz)		
Output Polarity		
Output Function		
Connection Diagram		
Short Circuit Protection		
Status Indication		

Cylindrical Housing M30 x 1.5 EGT Version 3 / 4 Wire D.C. Standard Switching Distance								
Technical Data	Type : EGT30X10	Type : EGT30X15						
Housing Material	Brass Nickel Plated	Brass Nickel Plated						
Environmental Protection	IP67	IP67						
Mounting Position	Optional	Optional						
Operating Temperature (deg.C)	-25 to +70	-25 to +70						
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000	2000 or 5000						
Conductor Cross Section (mm ²)	0.34	0.34						
Sensing Distance Sn (mm)	Flush Fitting = 10	Non-Flush Fitting = 15						
Switch Point Hysteresis H (mm) ≤	1.0	1.5						
Repeat Accuracy (mm) ≤	0.5	1.0						
Operating Voltage (V)	10-30	10-30						
Operating Voltage Ripple (%) ≤	10	10						
Load Current Ia (mA) max	250	250						
Residual Current Ir (mA) ≤	0.001	0.001						
No-Load Current (mA) ≤	15	15						
Voltage Drop Ud (V) ≤	2.5	2.5						
Internal Resistance Ri (KΩ)	4.7	4.7						
Temperature Drift S (μm/K) ≤	± 20	± 30						
Switching Frequency (Hz)	300	300						
Output Polarity	PNP	NPN						
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC	A=NO	U=NO+NC		
Connection Diagram	1	3	2	4	1	3	2	4
Short Circuit Protection	yes	yes	yes	yes	yes	yes	yes	yes
Status Indication	LED (see ordering code)				LED (see ordering code)			

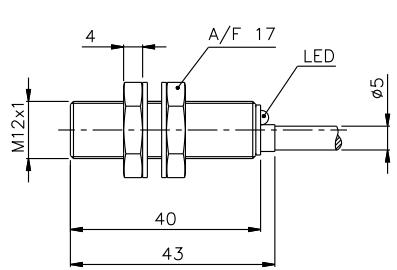
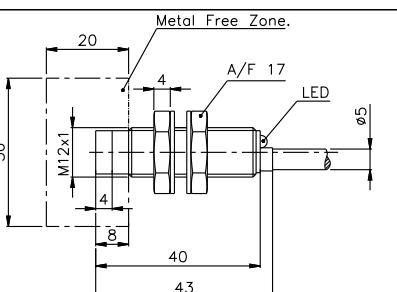
Cylindrical Housing M30 x 1.5 EGT Version 3 / 4 Wire D.C. Standard Switching Distance								
Technical Data	Type : EGT30X10-SEM4	Type : EGT30X15-SEM4						
Housing Material	Brass Nickel Plated	Brass Nickel Plated						
Environmental Protection	IP67	IP67						
Mounting Position	Optional	Optional						
Operating Temperature (deg.C)	-25 to +70	-25 to +70						
Connection	Plug and Socket	Plug and Socket						
Cable Length (mm)	-	-						
Conductor Cross Section (mm ²)	-	-						
Sensing Distance Sn (mm)	Flush Fitting = 10	Non-Flush Fitting = 15						
Switch Point Hysteresis H (mm) ≤	1.0	1.5						
Repeat Accuracy (mm) ≤	0.5	1.0						
Operating Voltage (V)	10-30	10-30						
Operating Voltage Ripple (%) ≤	10	10						
Load Current Ia (mA) max	250	250						
Residual Current Ir (mA) ≤	0.001	0.001						
No-Load Current (mA) ≤	15	15						
Voltage Drop Ud (V) ≤	2.5	2.5						
Internal Resistance Ri (KΩ)	4.7	4.7						
Temperature Drift S (μm/K) ≤	± 20	± 30						
Switching Frequency (Hz)	300	300						
Output Polarity	PNP	NPN						
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC	A=NO	U=NO+NC		
Connection Diagram	1	3	2	4	1	3	2	4
Short Circuit Protection	yes	yes	yes	yes	yes	yes	yes	yes
Status Indication	LED (see ordering code)				LED (see ordering code)			

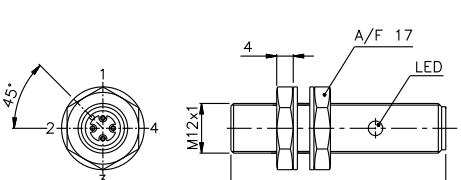
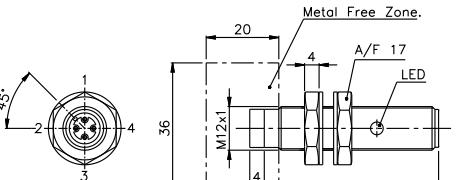
Cylindrical Housing M30 x 1.5 EGT Version 2 Wire A.C. Standard Switching Distance		
Technical Data	Type : EGT30X10 AW / RW	Type : EGT30X15 AW / RW
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.5	0.5
Sensing Distance Sn (mm)	Flush Fitting = 10	Non-Flush Fitting = 15
Switch Point Hysteresis H (mm) ≤	1.0	1.5
Repeat Accuracy (mm) ≤	0.3	0.5
Operating Voltage (V)	90-250	90-250
Load Current Ia (mA) max	250	250
Inrush Current Ik (A) 20 ms	1.5	1.5
Residual Current Ir (mA)	≤ 3	3
Holding Current Ih (mA)	≥ 10	10
Voltage Drop Ud (V)	≤ 9 (90-250 V)	9 (90-250 V)
Internal Resistance Ri (kΩ)	-	-
Temperature Drift S (μm/K)	≤ ± 20	± 30
Switching Frequency (Hz)	10	10
Output Polarity	-	-
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	6 6	6 6
Short Circuit Protection	no no	no no
Status Indication	LED (see ordering code)	LED (see ordering code)

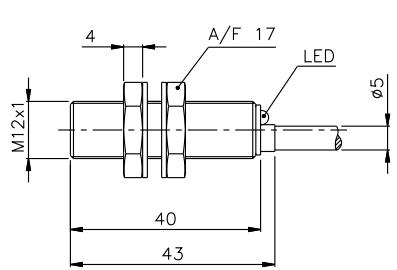
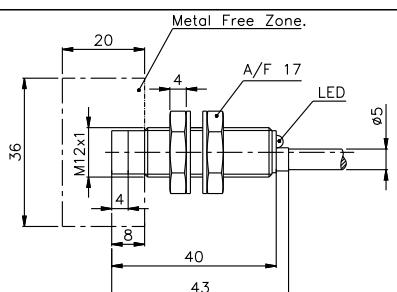
Cylindrical Housing M30 x 1.5 EGT Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGT30X10 AD / RD	Type : EGT30X15 AD / RD
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 10	Non-Flush Fitting = 15
Switch Point Hysteresis H (mm) ≤	1.0	1.5
Repeat Accuracy (mm) ≤	0.3	1.0
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA)	≤ 1.0	1.0
Holding Current Im (mA)	≥ 4	4
Voltage Drop Ud (V)	≤ 4.5	4.5
Internal Resistance Ri (kΩ)	-	-
Temperature Drift S (μm/K)	≤ ± 20	± 30
Switching Frequency (Hz)	200	200
Output Polarity	-	-
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

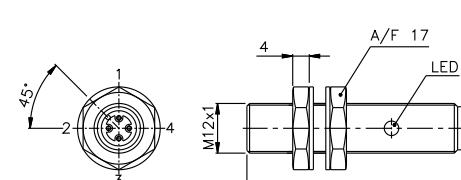
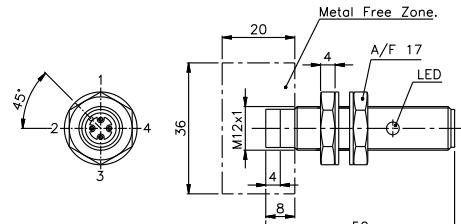
Cylindrical Housing M8 x 1 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL08X01	Type : EGL08X1,5
DC Operating Voltage	DC Operating Voltage	DC Operating Voltage
Housing Material	Stainless Steel	Stainless Steel
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.14	0.14
Sensing Distance Sn (mm)	Flush Fitting = 1	Flush Fitting = 1.5
Switch Point Hysteresis H (mm) ≤	0.15	0.2
Repeat Accuracy (mm) ≤	0.05	0.1
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	11	11
Voltage Drop Ud (V) ≤	1.3	1.3
Internal Resistance Ri (KΩ)	10	10
Temperature Drift S (µm/K) ≤	± 3	± 3
Switching Frequency (Hz)	2000	2000
Output Polarity	PNP	NPN
Output Function	A=NO	A=NO
Connection Diagram	1	2
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M8 x 1 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL08X01-SEM3	Type : EGL08X1,5-SEM3
DC Operating Voltage	DC Operating Voltage	DC Operating Voltage
Housing Material	Stainless Steel	Stainless Steel
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 1	Flush Fitting = 1.5
Switch Point Hysteresis H (mm) ≤	0.15	0.2
Repeat Accuracy (mm) ≤	0.05	0.1
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	11	11
Voltage Drop Ud (V) ≤	1.3	1.3
Internal Resistance Ri (KΩ)	10	10
Temperature Drift S (µm/K) ≤	± 3	± 3
Switching Frequency (Hz)	2000	2000
Output Polarity	PNP	NPN
Output Function	A=NO	A=NO
Connection Diagram	1	2
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M12 x 1 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL12X02	Type : EGL12X04
DC Operating Voltage		DC Operating Voltage
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	1000	1000
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

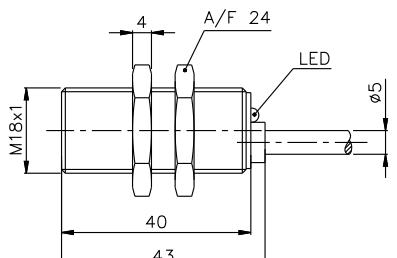
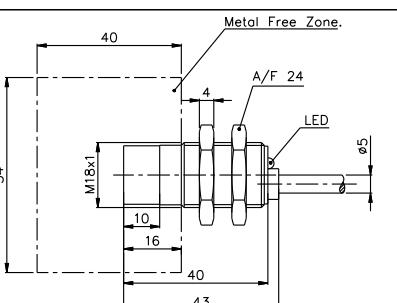
Cylindrical Housing M12 x 1 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL12X02-SEM4	Type : EGL12X04-SEM4
DC Operating Voltage		DC Operating Voltage
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	1000	1000
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

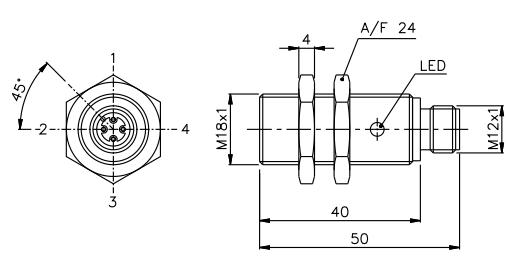
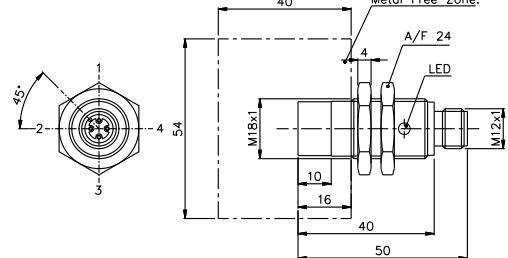
Cylindrical Housing M12 x 1 EGL Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL12X02-AD/RD	Type : EGL12X04-AD/RD
Housing Material	DC Operating Voltage	DC Operating Voltage
Environmental Protection	Brass Nickel Plated	Brass Nickel Plated
Mounting Position	IP67	IP67
Operating Temperature (deg.C)	Optional	Optional
Connection	-25 to +70	-25 to +70
Cable Length (mm)	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Conductor Cross Section (mm ²)	2000 or 5000	2000 or 5000
Sensing Distance Sn (mm)	0.34	0.34
Switch Point Hysteresis H (mm) ≤	Flush Fitting = 2	Non-Flush Fitting = 4
Repeat Accuracy (mm) ≤	0.2	0.6
Operating Voltage (V)	0.1	0.3
Operating Voltage Ripple (%) ≤	10-30	10-30
Load Current Ia (mA) max	10	10
Residual Current Ir (mA) ≤	200	200
Holding Current Im (mA) ≥	1.0	1.0
Voltage Drop Ud (V) ≤	4	4
Internal Resistance Ri (kΩ)	7.5	7.5
Temperature Drift S (μm/K) ≤	-	-
Switching Frequency (Hz)	± 4	± 8
Output Polarity	400	400
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M12 x 1 EGL Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL12X02-SEM4-AD/RD	Type : EGL12X04-SEM4-AD/RD
Housing Material	DC Operating Voltage	DC Operating Voltage
Environmental Protection	Brass Nickel Plated	Brass Nickel Plated
Mounting Position	IP67	IP67
Operating Temperature (deg.C)	Optional	Optional
Connection	-25 to +70	-25 to +70
Cable Length (mm)	Plug and Socket	Plug and Socket
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 2	Non-Flush Fitting = 4
Switch Point Hysteresis H (mm) ≤	0.2	0.6
Repeat Accuracy (mm) ≤	0.1	0.3
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (kΩ)	-	-
Temperature Drift S (μm/K) ≤	± 4	± 8
Switching Frequency (Hz)	400	400
Output Polarity	-	-
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M18 x 1 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL18X05	Type : EGL18X08
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 10	± 16
Switching Frequency (Hz)	500	500
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M18 x 1 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL18X05-SEM4	Type : EGL18X08-SEM4
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 10	± 16
Switching Frequency (Hz)	500	500
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M18 x 1 EGL Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL18X05-AD/RD	Type : EGL18X08-AD/RD
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (µm/K) ≤	± 10	± 16
Switching Frequency (Hz)	200	200
Output Polarity		
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	LED (see ordering code)

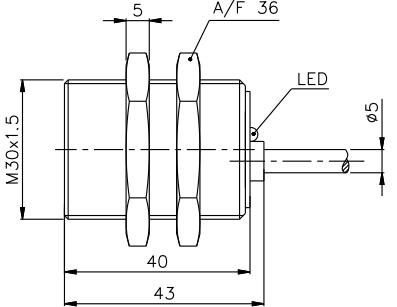
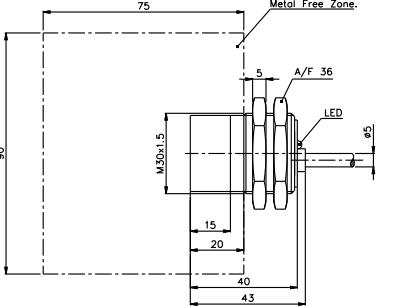
Cylindrical Housing M18 x 1 EGL Version 2 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL18X05-SEM4-AD/RD	Type : EGL18X08-SEM4-AD/RD
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 5	Non-Flush Fitting = 8
Switch Point Hysteresis H (mm) ≤	0.5	0.8
Repeat Accuracy (mm) ≤	0.2	0.4
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	200	200
Residual Current Ir (mA) ≤	1.0	1.0
Holding Current Im (mA) ≥	4	4
Voltage Drop Ud (V) ≤	7.5	7.5
Internal Resistance Ri (KΩ)	-	-
Temperature Drift S (µm/K) ≤	± 10	± 16
Switching Frequency (Hz)	200	200
Output Polarity		
Output Function	A=NO R=NC	A=NO R=NC
Connection Diagram	5 5	5 5
Short Circuit Protection	yes yes	yes yes
Status Indication	LED (see ordering code)	

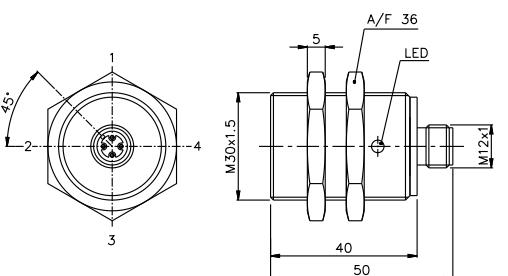
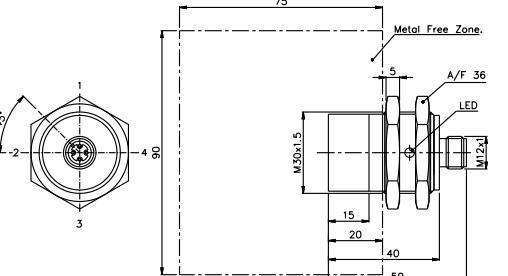
Cylindrical Housing M12 x 1 EGL Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGL12B04						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000						
Conductor Cross Section (mm ²)	0.34						
Sensing Distance Sn (mm)	Flush Fitting = 4						
Switch Point Hysteresis H (mm) ≤	0.4						
Repeat Accuracy (mm) ≤	0.2						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (µm/K) ≤	± 8						
Switching Frequency (Hz)	1000						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

Cylindrical Housing M12 x 1 EGL Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGL12B04-SEM4						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Plug and Socket						
Cable Length (mm)	-						
Conductor Cross Section (mm ²)	-						
Sensing Distance Sn (mm)	Flush Fitting = 4						
Switch Point Hysteresis H (mm) ≤	0.4						
Repeat Accuracy (mm) ≤	0.2						
Operating Voltage (V) ≤	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (µm/K) ≤	± 8						
Switching Frequency (Hz)	1000						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

Cylindrical Housing M18 x 1 EGL Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGL18B08						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000						
Conductor Cross Section (mm ²)	0.34						
Sensing Distance Sn (mm)	Flush Fitting = 8						
Switch Point Hysteresis H (mm) ≤	0.8						
Repeat Accuracy (mm) ≤	0.4						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (µm/K) ≤	± 12						
Switching Frequency (Hz)	500						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

Cylindrical Housing M18 x 1 EGL Version 3 Wire D.C. Extended Switching Distance							
Technical Data	Type : EGL18B08-SEM4						
	DC Operating Voltage						
Housing Material	Brass Nickel Plated						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Plug and Socket						
Cable Length (mm)	-						
Conductor Cross Section (mm ²)	-						
Sensing Distance Sn (mm)	Flush Fitting = 8						
Switch Point Hysteresis H (mm) ≤	0.8						
Repeat Accuracy (mm) ≤	0.4						
Operating Voltage (V) ≤	10-30						
Operating Voltage Ripple (%) ≤	10						
Load Current Ia (mA) max	200						
Residual Current Ir (mA) ≤	0.001						
No-Load Current (mA) ≤	15						
Voltage Drop Ud (V) ≤	2.5						
Internal Resistance Ri (KΩ)	4.7						
Temperature Drift S (µm/K) ≤	± 12						
Switching Frequency (Hz)	500						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

Cylindrical Housing M30 x 1.5 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL30X10	Type : EGL30X15
	DC Operating Voltage	DC Operating Voltage
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable
Cable Length (mm)	2000 or 5000	2000 or 5000
Conductor Cross Section (mm ²)	0.34	0.34
Sensing Distance Sn (mm)	Flush Fitting = 10	Non-Flush Fitting = 15
Switch Point Hysteresis H (mm) ≤	1.0	1.5
Repeat Accuracy (mm) ≤	0.5	1.0
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 20	± 30
Switching Frequency (Hz)	300	300
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Cylindrical Housing M30 x 1.5 EGL Version 3 Wire D.C. Standard Switching Distance		
Technical Data	Type : EGL30X10-SEM4	Type : EGL30X15-SEM4
	DC Operating Voltage	DC Operating Voltage
Housing Material	Brass Nickel Plated	Brass Nickel Plated
Environmental Protection	IP67	IP67
Mounting Position	Optional	Optional
Operating Temperature (deg.C)	-25 to +70	-25 to +70
Connection	Plug and Socket	Plug and Socket
Cable Length (mm)	-	-
Conductor Cross Section (mm ²)	-	-
Sensing Distance Sn (mm)	Flush Fitting = 10	Non-Flush Fitting = 15
Switch Point Hysteresis H (mm) ≤	1.0	1.5
Repeat Accuracy (mm) ≤	0.5	1.0
Operating Voltage (V)	10-30	10-30
Operating Voltage Ripple (%) ≤	10	10
Load Current Ia (mA) max	250	250
Residual Current Ir (mA) ≤	0.001	0.001
No-Load Current (mA) ≤	15	15
Voltage Drop Ud (V) ≤	2.5	2.5
Internal Resistance Ri (KΩ)	4.7	4.7
Temperature Drift S (μm/K) ≤	± 20	± 30
Switching Frequency (Hz)	300	300
Output Polarity	PNP	NPN
Output Function	A=NO U=NO+NC	A=NO U=NO+NC
Connection Diagram	1 3	2 4
Short Circuit Protection	yes	yes
Status Indication	LED (see ordering code)	LED (see ordering code)

Rectangular Housing Flat Profile FG2 Version 3 / 4 Wire D.C. Standard Switching Distance				
Technical Data	Type : FG2X05			
	DC Operating Voltage			
Housing Material	Plastic			
Environmental Protection	IP67			
Mounting Position	Optional			
Operating Temperature (deg.C)	-25 to +70			
Connection	Encapsulated Oil Resistant Cable			
Cable Length (mm)	2000 or 5000			
Conductor Cross Section (mm ²)	0.34			
Sensing Distance Sn (mm)	5			
Switch Point Hysteresis H (mm) ≤	0.5			
Repeat Accuracy (mm) ≤	0.2			
Operating Voltage (V)	10-30			
Operating Voltage Ripple (%) ≤	10			
Load Current Ia (mA) max	250			
Residual Current Ir (mA) ≤	0.001			
No-Load Current (mA) ≤	15			
Voltage Drop Ud (V) ≤	2.5			
Internal Resistance Ri (KΩ)	4.7			
Temperature Drift S (μm/K) ≤	± 10			
Switching Frequency (Hz)	500			
Output Polarity	PNP	NPN		
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC
Connection Diagram	1	3	2	4
Short Circuit Protection	yes	no	yes	no
Status Indication	LED (see ordering code)			

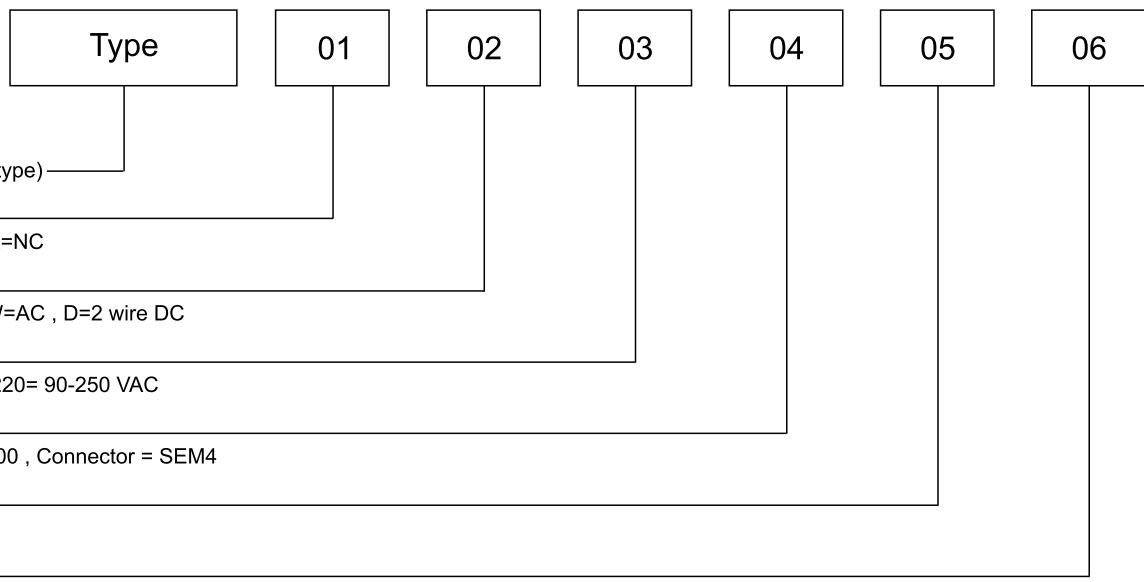
Rectangular Housing Flat Profile FG4 Version 3 Wire D.C. Standard Switching Distance		Type : FG4X02	Type : FG41X02	
	DC Operating Voltage	DC Operating Voltage	DC Operating Voltage	
Housing Material	Plastic	Plastic	Plastic	
Environmental Protection	IP67	IP67	IP67	
Mounting Position	Optional	Optional	Optional	
Operating Temperature (deg.C)	-25 to +70	-25 to +70	-25 to +70	
Connection	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable	Encapsulated Oil Resistant Cable	
Cable Length (mm)	2000 or 5000	2000 or 5000	2000 or 5000	
Conductor Cross Section (mm ²)	0.34	0.34	0.34	
Sensing Distance Sn (mm)	2	2	2	
Switch Point Hysteresis H (mm) ≤	0.2	0.2	0.2	
Repeat Accuracy (mm) ≤	0.1	0.1	0.1	
Operating Voltage (V)	10-30	10-30	10-30	
Operating Voltage Ripple (%) ≤	10	10	10	
Load Current Ia (mA) max	250	250	250	
Residual Current Ir (mA) ≤	0.001	0.001	0.001	
No-Load Current (mA) ≤	15	15	15	
Voltage Drop Ud (V) ≤	2.5	2.5	2.5	
Internal Resistance Ri (KΩ)	4.7	4.7	4.7	
Temperature Drift S (μm/K) ≤	± 4	± 4	± 4	
Switching Frequency (Hz)	500	500	500	
Output Polarity	PNP	NPN	PNP	NPN
Output Function	A=NO		A=NO	
Connection Diagram	1	2	1	2
Short Circuit Protection	yes	yes	yes	yes
Status Indication	LED (see ordering code)			LED (see ordering code)

Block Housing Flat Profile N1A Version 3 / 4 Wire D.C. Standard Switching Distance							
Technical Data	Type : N1AX05						
	DC Operating Voltage						
Housing Material	Aluminium Casting , Anodised						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000						
Conductor Cross Section (mm ²)	0.34						
Sensing Distance Sn (mm)	5						
Switch Point Hysteresis H (mm) \leq	0.5						
Repeat Accuracy (mm) \leq	0.2						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) \leq	10						
Load Current Ia (mA) max	250						
Residual Current Ir (mA) \leq	0.001						
No-Load Current (mA) \leq	15						
Voltage Drop Ud (V) \leq	2.5						
Internal Resistance Ri (K Ω)	4.7						
Temperature Drift S ($\mu\text{m}/\text{K}$) \leq	± 10						
Switching Frequency (Hz)	500						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)				LED (see ordering code)		

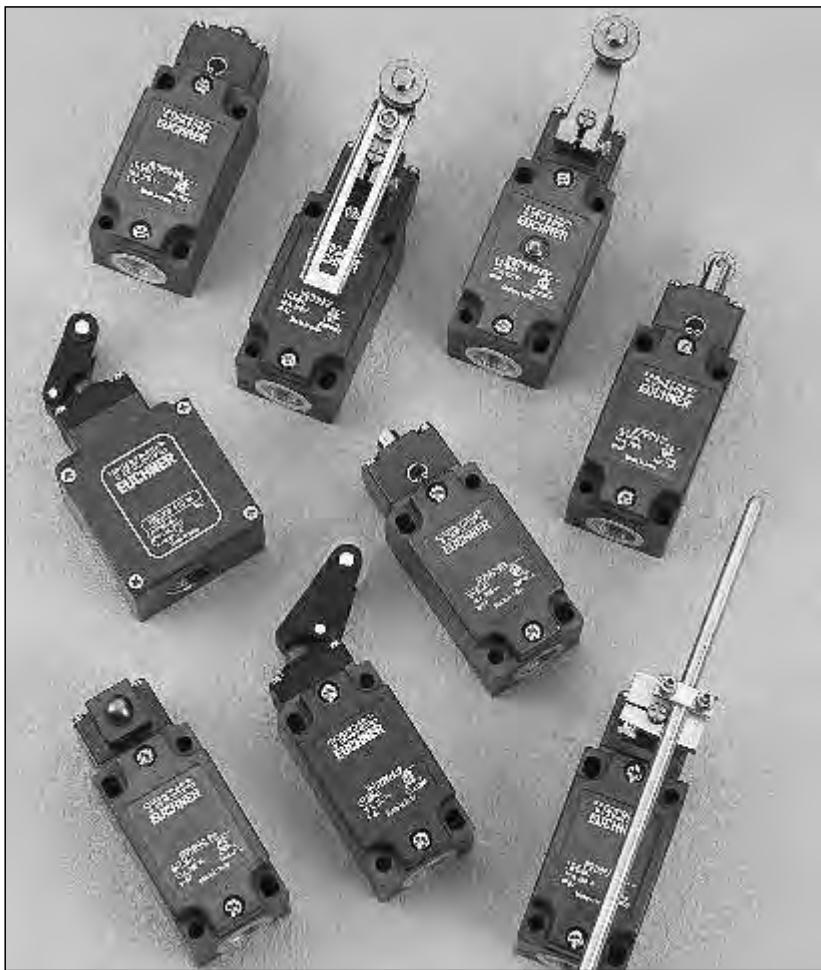
Block Housing Flat Profile SN01 Version 3 Wire D.C. Standard Switching Distance							
Technical Data	Type : SN01X05						
	DC Operating Voltage						
Housing Material	Aluminium Casting , Anodised						
Environmental Protection	IP67						
Mounting Position	Optional						
Operating Temperature (deg.C)	-25 to +70						
Connection	Encapsulated Oil Resistant Cable						
Cable Length (mm)	2000 or 5000						
Conductor Cross Section (mm ²)	0.34						
Sensing Distance Sn (mm)	5						
Switch Point Hysteresis H (mm) \leq	0.5						
Repeat Accuracy (mm) \leq	0.2						
Operating Voltage (V)	10-30						
Operating Voltage Ripple (%) \leq	10						
Load Current Ia (mA) max	250						
Residual Current Ir (mA) \leq	0.001						
No-Load Current (mA) \leq	15						
Voltage Drop Ud (V) \leq	2.5						
Internal Resistance Ri (K Ω)	4.7						
Temperature Drift S ($\mu\text{m}/\text{K}$) \leq	± 10						
Switching Frequency (Hz)	500						
Output Polarity	PNP	NPN					
Output Function	A=NO	U=NO+NC	A=NO	U=NO+NC			
Connection Diagram	1	3	2	4			
Short Circuit Protection	yes	yes	yes	yes			
Status Indication	LED (see ordering code)						

Connection Plug	 1 +br 4 bk 3 -bl NO PNP / NPN	 1 +br 4 bk 2 white 3 -bl NO PNP / NPN
Technical Data	SBF	SGF
Indication	-	-
Environmental Protection	IP67	IP67
Output Function	NO / NO+NC	NO / NO+NC
Output Polarity	PNP / NPN	PNP / NPN
Cable Length (mm)	2000	5000
Ordering Code	SBF3A-2000 SBF4U-2000	SBF3A-5000 SBF4U-5000
	SBF4 WITHOUT CABLE	SGF4 WITHOUT CABLE
SGF4 WITHOUT CABLE		

Connection Plug	 1 +br 4 bk 3 -bl NO PNP / NPN	 1 +br 4 bk 2 white 3 -bl NO , PNP
Technical Data	SWLF/SWTF	
Indication	-	LED
Environmental Protection	IP67	IP67
Output Function	NO	NO
Output Polarity	PNP / NPN	PNP
Cable Length (mm)	2000	5000
Ordering Code	SWLF3A-2000 SWTF3A-2000P	SWLF3A-5000 SWTF3A-5000P
SWLF3A-2000P	SWLF3AP-2000P	SWLF3AP-5000P
SWTF3A-5000P		

Ordering Code for Inductive Proximity Switches

Products from TEKNIC EUCHNER, INDIA



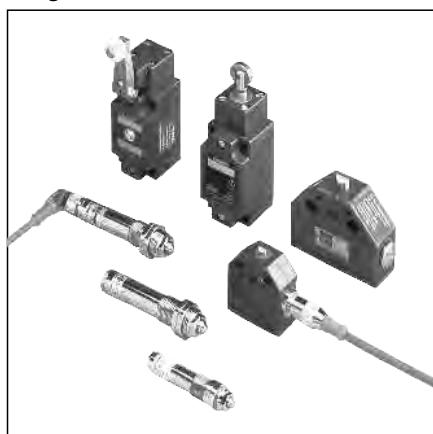
Single Limit Switches



Multiple Limit Switches

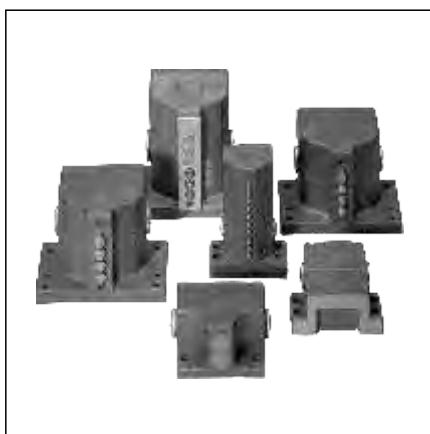
Products from **EUCHNER**, GERMANY

Precision Single-hole fixing / Single Limit Switches



Control & positioning Switches.

Precision Single / Multiple Limit Switches



Switches used for positioning & control of machines & Industrial Installation.

Angular Position Transducers



Precise digital positioning devices for detecting rotary / linear displacement. Both absolute as well as incremental type of transducers available.

Safety Switches Category II TZ & NZ



Safety devices for monitoring moveable guards on CNC machine tools.

Safety Switches Category II TP & NP



Safety devices in plastic construction for monitoring moveable guards on CNC machine tools,

Enabling Switches



Manually operated control devices for use in hazardous areas of machine & equipment.

Joysticks



Switches used to control circuits in machines & equipment with commands to operate in several directions.

Handwheels



Electronic HKD Handwheel devices, with universal pulse generator for manual positioning of axis.

Hand-held Controllers



Controllers used to make machine operations easier & safer with handwheels.

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