



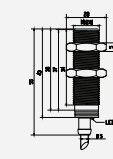
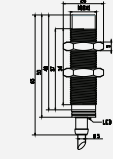
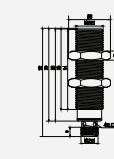
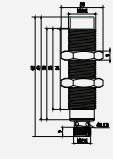


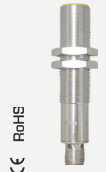

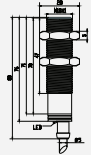
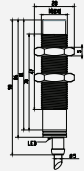
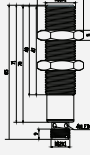
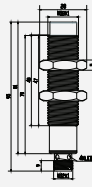




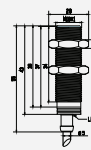
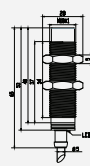

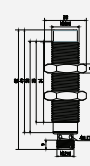


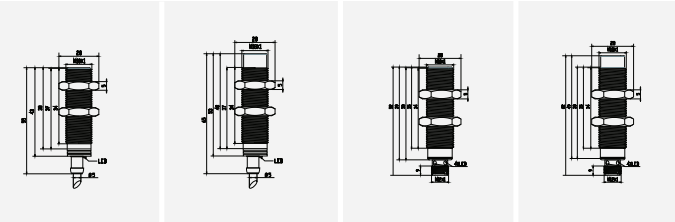






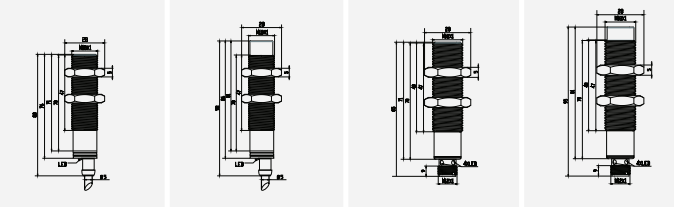
Size	M18 Standard			
	Cable		Connector	
Standard	5mm	8mm	5mm	8mm
Sensing range	5mm	8mm	5mm	8mm
				
3 wire PNP NO	IC1001	IC1005	IC1009	IC1013
3 wire PNP NC	IC1002	IC1006	IC1010	IC1014
3 wire NPN NO	IC1003	IC1007	IC1011	IC1015
3 wire NPN NC	IC1004	IC1008	IC1012	IC1016
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	10...36DC	10...36DC	10...36DC	10...36DC
Current loading[mA]	250	250	250	250
Short-circuit protection	Yes	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Voltage drop[V]	< 2.5	< 2.5	< 2.5	< 2.5
Current consumption[mA]	< 15(24VDC)	< 15(24VDC)	< 15(24VDC)	< 15(24VDC)
Real sensing range[mm]	5 ± 10%	8 ± 10%	5 ± 10%	8 ± 10%
Operating range[mm]	0...4	0...6.4	0...4	0...6.4
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	400	400	400	400
Ambient temperature [°C]	-25...80	-25...80	-25...80	-25...80
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Aluminium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	PVC-cable/2m;3 x 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

Size	M18 Standard			
	Cable		Connector	
Standard	5mm	8mm	5mm	8mm
Sensing range	5mm	8mm	5mm	8mm
				
2 wire NO	IC1017	IC1019	IC1021	IC1023
2 wire NC	IC1018	IC1020	IC1022	IC1024
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	10...36DC	10...36DC	10...36DC	10...36DC
Current loading[mA]	250	250	250	250
Short-circuit protection	Yes	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Voltage drop[V]	< 4.3DC	< 4.3DC	< 4.3DC	< 4.3DC
Current consumption[mA]	< 1(24VDC)	< 1(24VDC)	< 1(24VDC)	< 1(24VDC)
Real sensing range[mm]	5 ± 10%	8 ± 10%	5 ± 10%	8 ± 10%
Operating range[mm]	0...4	0...6.4	0...4	0...6.4
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	70	70	70	70
Ambient temperature [°C]	-25...80	-25...80	-25...80	-25...80
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Aluminium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	PVC-cable/2m;2 x 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

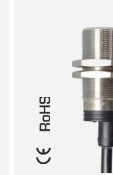



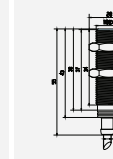
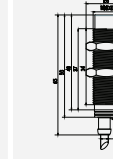

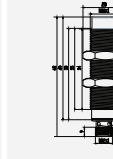
Size	M18 Standard			
	Cable		Connector	
Standard	5mm	8mm	5mm	8mm
Sensing range	5mm		8mm	
				
2 wire NO	IC1025	IC1027	IC1029	IC1031
2 wire NC	IC1026	IC1028	IC1030	IC1032
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	20...250AC/DC	20...250AC/DC	20...250AC/DC	20...250AC/DC
Current loading[mA]	250	250	250	250
Short-circuit protection	No	No	No	No
Overload protection	No	No	No	No
Voltage drop[V]	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC
Current consumption[mA]	< 2.5(250VAC)/ < 1.3(110VAC)/ < 0.8(24VDC)			
Real sensing range[mm]	5 ± 10%	8 ± 10%	5 ± 10%	8 ± 10%
Operating range[mm]	0...4	0...6,4	0...4	0...6,4
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	25AC/60DC	25AC/60DC	25AC/60DC	25AC/60DC
Ambient temperature [°C]	-25...80	-25...80	-25...80	-25...80
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Aluminum approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	PVC-cable/2m; 2 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				





Size	M18 Extra length			
	Cable		Connector	
Standard	7mm	12mm	7mm	12mm
Sensing range	7mm		12mm	
				
3 wire PNP NO	IC1101	IC1105	IC1109	IC1113
3 wire PNP NC	IC1102	IC1106	IC1110	IC1114
3 wire NPN NO	IC1103	IC1107	IC1111	IC1115
3 wire NPN NC	IC1104	IC1108	IC1112	IC1116
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	10...36DC	10...36DC	10...36DC	10...36DC
Current loading[mA]	250	250	250	250
Short-circuit protection	Yes	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Voltage drop[V]	< 2.5	< 2.5	< 2.5	< 2.5
Current consumption[mA]	< 15(24VDC)	< 15(24VDC)	< 15(24VDC)	< 15(24VDC)
Real sensing range[mm]	7 ± 10%	12 ± 10%	7 ± 10%	12 ± 10%
Operating range[mm]	0...5,6	0...9,6	0...5,6	0...9,6
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	400	400	400	400
Ambient temperature [°C]	-25...80	-25...80	-25...80	-25...80
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Aluminum approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	PVC-cable/2m; 3 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

Size	M18 Extra length			
	Cable		Connector	
Standard	7mm	12mm	7mm	12mm
Sensing range				
				
2 wire NO	IC1117	IC1119	IC1121	IC1123
2 wire NC	IC1118	IC1120	IC1122	IC1124
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	10...36DC	10...36DC	10...36DC	10...36DC
Current loading[mA]	250	250	250	250
Short-circuit protection	Yes	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Voltage drop[V]	< 4.3DC	< 4.3DC	< 4.3DC	< 4.3DC
Current consumption[mA]	< 1(24VDC)	< 1(24VDC)	< 1(24VDC)	< 1(24VDC)
Real sensing range[mm]	7 ± 10%	12 ± 10%	7 ± 10%	12 ± 10%
Operating range[mm]	0...5.6	0...9.6	0...5.6	0...9.6
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	70	70	70	70
Ambient temperature [°C]	-25...80	-25...80	-25...80	-25...80
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Alumium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	PVC-cable/2m;2 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

Size	M18 Extra length			
	Cable		Connector	
Standard	7mm	12mm	7mm	12mm
Sensing range				
				
2 wire NO	IC1125	IC1127	IC1129	IC1131
2 wire NC	IC1126	IC1128	IC1130	IC1132
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	20...250AC/DC	20...250AC/DC	20...250AC/DC	20...250AC/DC
Current loading[mA]	250	250	250	250
Short-circuit protection	No	No	No	No
Overload protection	No	No	No	No
Voltage drop[V]	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC
Current consumption[mA]	< 2.5(250VAC)/ < 1.3(110VAC)/ < 0.8(24VDC)			
Real sensing range[mm]	7 ± 10%	12 ± 10%	7 ± 10%	12 ± 10%
Operating range[mm]	0...5.6	0...9.6	0...5.6	0...9.6
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	25AC/60DC	25AC/60DC	25AC/60DC	25AC/60DC
Ambient temperature [°C]	-25...80	-25...80	-25...80	-25...80
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Alumium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	PVC-cable/2m;2 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

Size	M18 High temperature			
	Cable		Connector	
Standard	5mm	8mm	5mm	8mm
Sensing range				
				
3 wire PNP NO	IC1201	IC1205	IC1209	IC1213
3 wire PNP NC	IC1202	IC1206	IC1210	IC1214
3 wire NPN NO	IC1203	IC1207	IC1211	IC1215
3 wire NPN NC	IC1204	IC1208	IC1212	IC1216
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	10...36DC	10...36DC	10...36DC	10...36DC
Current loading[mA]	250	250	250	250
Short-circuit protection	Yes	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Voltage drop[V]	< 2.5	< 2.5	< 2.5	< 2.5
Current consumption[mA]	< 15(24VDC)	< 15(24VDC)	< 15(24VDC)	< 15(24VDC)
Real sensing range[mm]	5 ± 10%	8 ± 10%	5 ± 10%	8 ± 10%
Operating range[mm]	0...4	0...6.4	0...4	0...6.4
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	400	400	400	400
Ambient temperature [°C]	-25...120	-25...120	-25...120	-25...120
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Alumium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	silicone-cable/2m;3 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

Size	M18 High temperature			
	Cable		Connector	
Standard	5mm	8mm	5mm	8mm
Sensing range				
				
2 wire NO	IC1217	IC1219	IC1221	IC1223
2 wire NC	IC1218	IC1220	IC1222	IC1224
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	10...36DC	10...36DC	10...36DC	10...36DC
Current loading[mA]	250	250	250	250
Short-circuit protection	Yes	Yes	Yes	Yes
Reverse polarity protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Voltage drop[V]	4,3DC	4,3DC	4,3DC	4,3DC
Current consumption[mA]	< 1(24VDC)	< 1(24VDC)	< 1(24VDC)	< 1(24VDC)
Real sensing range[mm]	5 ± 10%	8 ± 10%	5 ± 10%	8 ± 10%
Operating range[mm]	0...4	0...6.4	0...4	0...6.4
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	70	70	70	70
Ambient temperature [°C]	-25...120	-25...120	-25...120	-25...120
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Alumium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	silicone-cable/2m;2 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing				

Size	M18 High temperature			
Standard	Cable		Connector	
Sensing range	5mm	8mm	5mm	8mm
				
2 wire NO	IC1225	IC1227	IC1229	IC1231
2 wire NC	IC1226	IC1228	IC1230	IC1232
Sensing surface	Flush	Non-flush	Flush	Non-flush
Operating voltage[V]	20...250AC/DC	20...250AC/DC	20...250AC/DC	20...250AC/DC
Current loading[mA]	250	250	250	250
Short-circuit protection	No	No	No	No
Overload protection	No	No	No	No
Voltage drop[V]	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC	< 6.5AC/ < 6DC
Current consumption[mA]	< 2.5(250VAC)/ < 1.3(110VAC)/ < 0.8(24VDC)			
Real sensing range[mm]	5 ± 10%	8 ± 10%	5 ± 10%	8 ± 10%
Operating range[mm]	0...4	0...6,4	0...4	0...6,4
Switch-point drift [%Sr]	-10...10	-10...10	-10...10	-10...10
Hysteresis [%Sr]	1...15	1...15	1...15	1...15
Switching frequency [Hz]	25AC/60DC	25AC/60DC	25AC/60DC	25AC/60DC
Ambient temperature [°C]	-25...120	-25...120	-25...120	-25...120
Protection classification	IP67	IP67	IP67	IP67
Adjustment factors	Low carbon steel=1/stainless steel approx 0.7/Brass approx 0.4/Alumium approx 0.3/Copper approx 0.2			
Housing material	Stainless steel ; Sensing surface: PBT			
Display LED	Red(90°)	Red(90°)	Red(90°)	Red(90°)
Connection	silicone-cable/2m;2 × 0.34mm ²		M12 Connector	
Accessories	Two fixed nuts			
Drawing	