

INDUCTIVE

INDUCTIVE SENSORS

Cylinder DC



pulsotronic

About us

In the traditional and strive industry region Chemnitz-Zwickau, directly at the freeway A72 you will find the new location of the Pulsotronic GmbH & Co.KG.

As a worldwide active company we develop and produce according to ISO 9001 proximity switches and electronic components for the following product ranges:

- > Inductive and Capacitive Sensors
- > Metal separation and Metal detection
- > Picture Processing
- > Optical Sensors
- > Magnetoresistive Sensors
- > Laser Systems
- > Colour Detection
- > Ultrasonic Sensors
- > X-Ray- Scanner

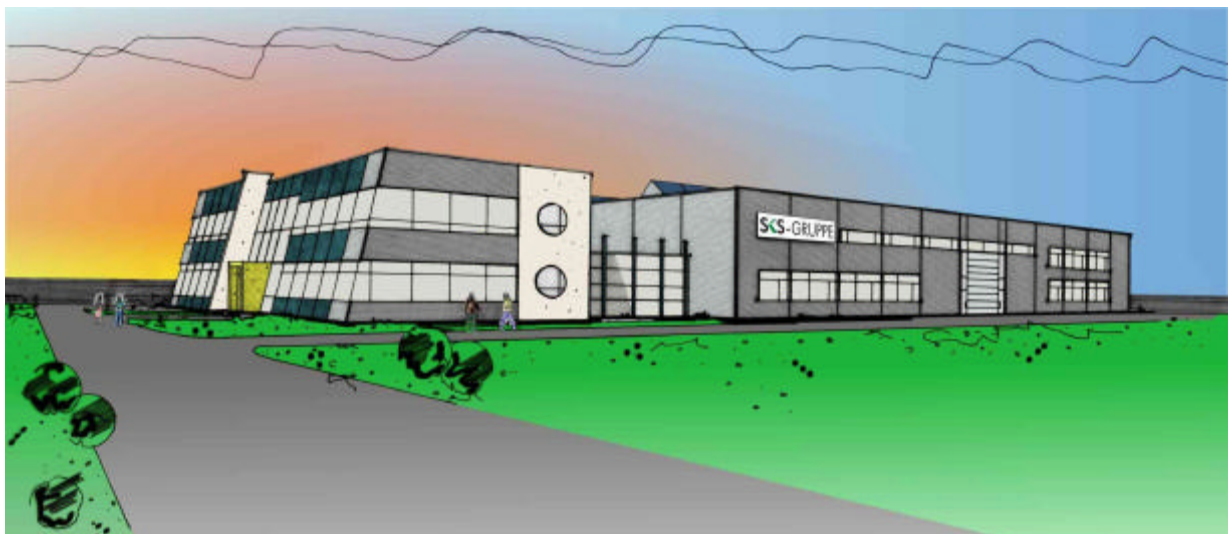
We guarantee customized solutions by our high-performance profile in the area. The available wide palette of key technologies is an ideal condition for the realization of your application.

You find the Pulsotronic everywhere there, where are to set standards and to solve task positions on the far side of well known standing types.

With innovation and individualism our competent team will advise also on place to solve your problem.

Demand us, than you will also find out:

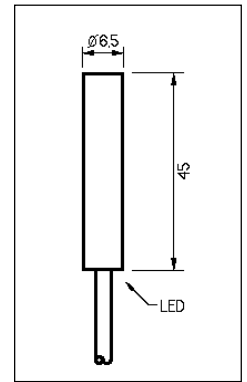
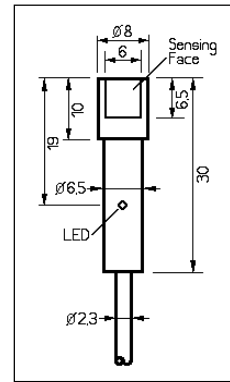
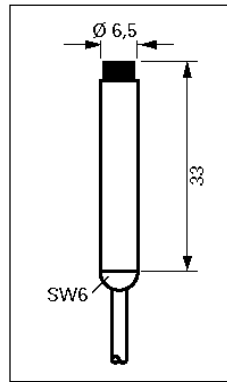
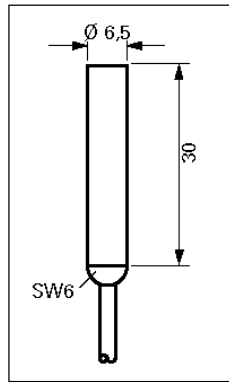
„Pulsotronic - Here is the solution.“



K J 10 - M 30 M B 45 - D P S - V1 - X0000											
T T T T T T T T T T T T T 1 2 3 4 5 6 7 8 9 10 11 12											
1= Working principle:	J	inductive	JR	inductive ring	JF	inductive surface	JG	inductive slot	JD	full metal	
	C	capacitive									
	M	magnetoresistive									
2= Switching distance / range											
3= Design:	M	cylindrical housings with metrical thread									
	G	cylindrical housings without thread									
	Q	square housings									
	D	ring housings									
4= Housing diameter / edge length											
5= Housing material:	M	brass, nickel plated	11= Kind of Connection:	V1	M8 screw / snap in						
	E	stainless steel 1.4305		V2	M12 metal						
	K	plastic		V2/1	M12 plastic						
	A	aluminium		V3	M5 metal						
				V4	Amphenol Tuchel						
6= installation type:	B	shielded		V6	Brad Harrison						
	N	non shielded		V7	valve connector type A						
				V8	M8 only snap in						
7= Tube length:		for cylindrical devices in mm		V9	M12 only snap in						
				V10	valve connector type C						
8= Operating voltage:	D	DC direct-current voltage		V11	AC-connector 1/2" UNF						
	AZ	AC alternating-current voltage		V12	M18 plastic						
	VZ	AC/DC all voltages		VE	Euchner connector						
				ZW	termination box 90°						
9= Type of the output signal:	P	PNP		RS232	data interface						
	N	NPN		PG	thread joint PG						
	Z	two-wire		Mxx	thread joint metrical						
	AN	analog	ANI	current output							
	NA	Namur	ANU	voltage output							
10= Function:	S	N.O.									
	Ö	N.C.									
	A	changeover									
	U	switchable									
	I	impulse output									
	D	data interface									
12= Addition mark:	SF	weld field immune									
	T	high temperature									
	FE	reduction 1 to steel/iron									
	NF	reduction 1 to aluminium									
	X	customized design									
	W	angled sensing face / angled cable exit									
	AM	middle sensing face									

Proximity switch - Connection pictures

wiring diagrams	cable- / clampconnection	connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur DIN 19234		
DZS DC 2-wire N.O.		
DZÖ DC 2-wire N.C.		
AZS / VZS AC/DC 2-wire N.O.		
AZÖ / VZÖ AC/DC 2-wire N.C.		
Analog		



Switching Distance
Mounting

2,0mm
Shielded

3,0 mm
Non - Shielded

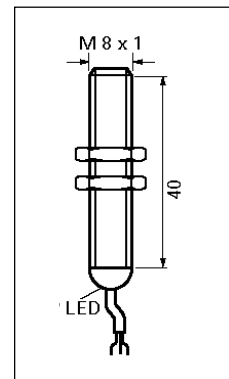
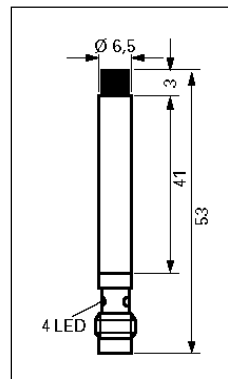
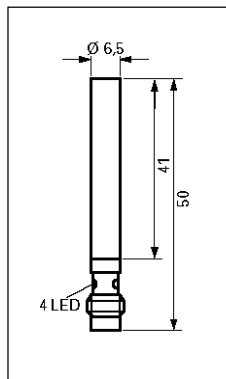
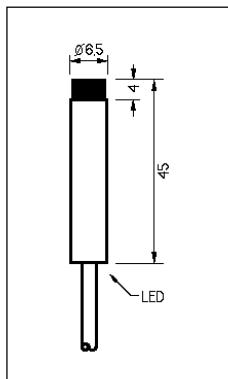
1,5 mm
Shielded

1,5 mm
Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ2-G6,5MB30-DPS 9981-6000	KJ3-G6,5MN33-DPS 9981-6200		
PNP Normally Close				
NPN Normally Open				
NPN Normally Close				
PNP Changeover			SJ1,5W-G6,5EB30-DPA	SJ1,5-G6,5EB45-DPA
NPN Changeover			SJ1,5W-G6,5EB30-DNA	SJ1,5-G6,5EB45-DNA
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 1,0 \text{ V}$	$\leq 1,0 \text{ V}$
Max. Load Current I_o	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakage Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	3000 Hz	2500 Hz	2000 Hz	2000 Hz
Hysteresis H	typ. $5\% \leq 10 \%$	typ. $5\% \leq 10 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_a	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 2 \%$	$\leq 2 \%$	$\leq 1 \%$	$\leq 1 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Stainless Steel	Stainless Steel
Front Cap	PCP	PCP	POM	POM
Termination	Cable 3 x 0,14	Cable 3 x 0,14	Cable 4 x 0,15	Cable 4 x 0,15

More special versions by separate inquiries!

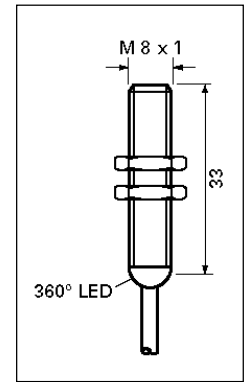
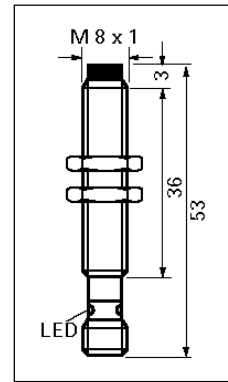
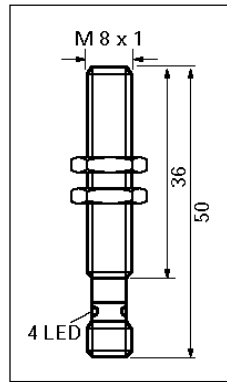
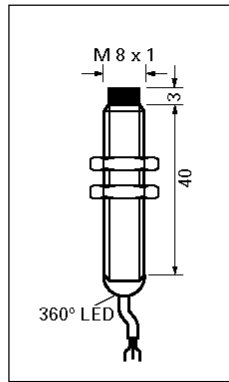
Connection and Termination picture at page 3.



Switching Distance	2,5mm	2,0 mm	3,0mm	1,5 mm
Mounting	Non - Shielded	Shielded	Non - Shielded	Shielded
	Type	Type	Type	Type
PNP Normally Open		KJ2-G6,5MB50-DPS-V1 9981-6064	KJ3-G6,5MN53-DPS-V1 9981-6264	KJ1,5-M8MB40-DPS 9961-0200
PNP Normally Close				
NPN Normally Open				KJ1,5-M8MB40-DNS 9961-0300
NPN Normally Close				
PNP Changeover	SJ2,5-G6,5EN45-DPA			
NPN Changeover	SJ2,5-G6,5EN45-DNA			
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 1,0 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_o	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	2000 Hz	3000 Hz	2500 Hz	2000 Hz
Hysteresis H	$\leq 15 \%$	typ. $5\% \leq 10 \%$	typ. $5\% \leq 10 \%$	$\leq 15 \%$
Operating Temperature T_a	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 1 \%$	$\leq 2 \%$	$\leq 2 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Stainless Steel	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	POM	PCP	PCP	PCP
Termination	Cable 3 x 0,15	M8 3-pol. Connector	M8 3-pol. Connector	Cable 3 x 0,14

More special versions by separate inquiries!

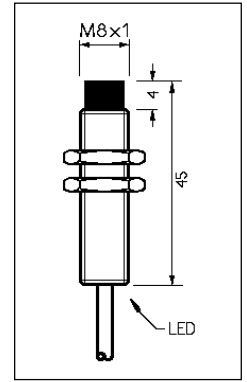
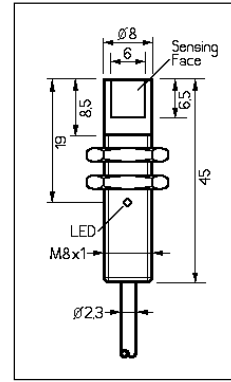
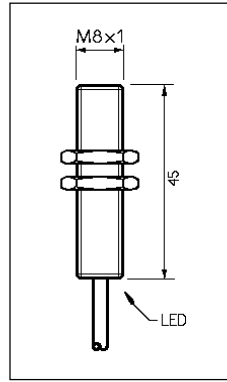
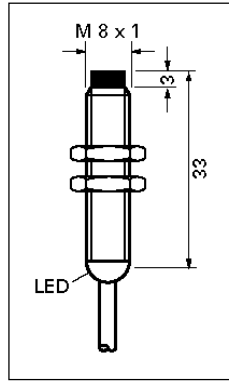
Connection and Termination picture at page 3.



Switching Distance	2,0mm	1,5 mm	2,0mm	2,0 mm
Mounting	Non - Shielded	Shielded	Non - Shielded	Shielded
Type	Type	Type	Type	Type
PNP Normally Open	KJ2-M8MN40-DPS 9961-0400	KJ1,5-M8MB50-DPS-V1 9961-0264	KJ2-M8MN50-DPS-V1 9961-0464	KJ2-M8MB33-DPS 9981-1000
PNP Normally Close				KJ2-M8MB33-DPÖ 9981-1400
NPN Normally Open	KJ2-M8MN40-DNS 9961-0500	KJ1,5-M8MB50-DNS-V1 9961-0364	KJ2-M8MN50-DNS-V1 9961-0564	KJ2-M8MB33-DNS 9981-1100
NPN Normally Close				KJ2-M8MB33-DNÖ 9981-1500
PNP Changeover				
NPN Changeover				
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_o	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	2000 Hz	2000 Hz	2000 Hz	3000 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$	typ. $5 \% \leq 10 \%$
Operating Temperature T_s	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 2 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	Cable 3 x 0,14	M8 3-pol. Connector	M8 3-pol. Connector	Cable 3 x 0,14

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance
Mounting

3,0mm
Non - Shielded

1,5 mm
Shielded

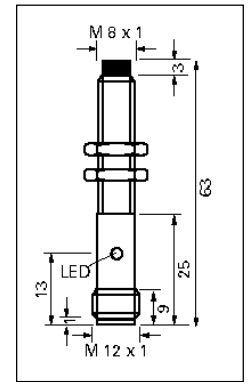
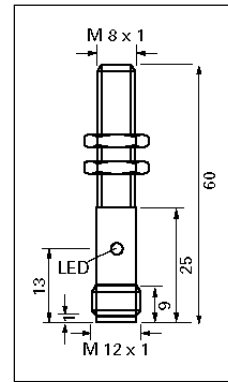
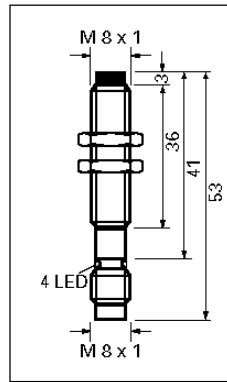
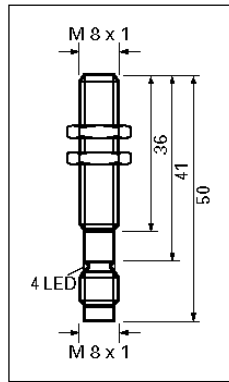
1,5mm
Shielded

2,5 mm
Non - Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ3-M8MN33-DPS 9981-1200			
PNP Normally Close	KJ3-M8MN33-DPÖ 9981-1600			
NPN Normally Open	KJ3-M8MN33-DNS 9981-1300			
NPN Normally Close	KJ3-M8MN33-DNÖ 9981-1700			
PNP Changeover		SJ1,5-M8EB45-DPA	SJ1,5W-M8EB45-DPA	SJ2,5-M8EN45-DPA
NPN Changeover		SJ1,5-M8EB45-DNA	SJ1,5W-M8EB45-DNA	SJ2,5-M8EN45-DNA
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 1,0 \text{ V}$	$\leq 1,0 \text{ V}$	$\leq 1,0 \text{ V}$
Max. Load Current I_r	200 mA	200 mA	200 mA	200 mA
Off-State Current I_r	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	2500 Hz	2000 Hz	2000 Hz	2000 Hz
Hysteresis H	typ. $5 \% \leq 10 \%$	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_a	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 1,0 \%$	$\leq 1,0 \%$	$\leq 1,0 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Stainless Steel	Stainless Steel	Stainless Steel
Front Cap	PCP	POM	POM	POM
Termination	Cable 3 x 0,14	Cable 3 x 0,15	Cable 3 x 0,15	Cable 4 x 0,15

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance
Mounting

2,0mm
Shielded

3,0 mm
Non - Shielded

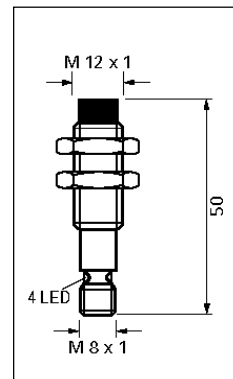
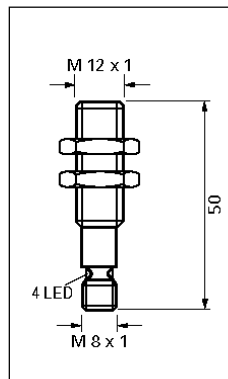
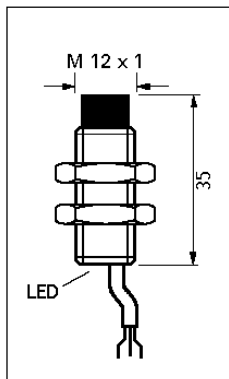
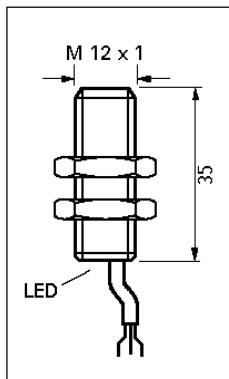
2,0mm
Shielded

3,0 mm
Non - Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ2-M8MB50-DPS-V1 9981-1064	KJ3-M8MN50-DPS-V1 9981-1264	KJ2-M8MB58-DPS-V2 9981-1050	KJ3-M8MN58-DPS-V2 9981-1250
PNP Normally Close	KJ2-M8MB50-DPÖ-V1 9981-1464	KJ3-M8MN50-DPÖ-V1 9981-1664	KJ2-M8MB58-DPÖ-V2 9981-1450	KJ3-M8MN58-DPÖ-V2 9981-1650
NPN Normally Open	KJ2-M8MB50-DNS-V1 9981-1164	KJ3-M8MN50-DNS-V1 9981-1364	KJ2-M8MB58-DNS-V2 9981-1150	KJ3-M8MN58-DNS-V2 9981-1350
NPN Normally Close	KJ2-M8MB50-DNÖ-V1 9981-1564	KJ3-M8MN50-DNÖ-V1 9981-1764	KJ2-M8MB58-DNÖ-V2 9981-1550	KJ3-M8MN58-DNÖ-V2 9981-1750
PNP Changeover				
NPN Changeover				
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 1,0 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_o	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	3000 Hz	2500 Hz	3000 Hz	2500 Hz
Hysteresis H	typ. $5 \% \leq 10 \%$	typ. $5 \% \leq 10 \%$	typ. $5 \% \leq 10 \%$	typ. $5 \% \leq 10 \%$
Operating Temperature T_a	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M8 3-pol. Connector	M8 3-pol. Connector	M12 4-pol. Connector	M12 4-pol. Connector

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance

2,0 mm

4,0 mm

2,0mm

4,0 mm

Mounting

Shielded

Non - Shielded

Shielded

Non - Shielded

PNP Normally Open

KJ2-M12MB35-DPS
9982-2000

KJ4-M12MN35-DPS
9982-2200

KJ2-M12MB50-DPS-V1
9982-2064

KJ4-M12MN50-DPS-V1
9982-2264

PNP Normally Close

NPN Normally Open

KJ2-M12MB35-DNS
9982-2100

KJ4-M12MN35-DNS
9982-2300

KJ2-M12MB50-DNS-V1
9982-2164

KJ4-M12MN50-DNS-V1
9982-2364

NPN Normally Close

PNP Changeover

NPN Changeover

Operating Voltage U_b

18 - 30 V DC

18 - 30 V DC

18 - 30 V DC

18 - 30 V DC

Ripple Voltage U_b

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Voltage Drop U_d

$\leq 1,5 \text{ V}$

$\leq 1,5 \text{ V}$

$\leq 1,5 \text{ V}$

$\leq 1,5 \text{ V}$

Max. Load Current I_o

120 mA

120 mA

120 mA

120 mA

Off-State Current I_o

$\leq 10 \text{ mA}$

$\leq 10 \text{ mA}$

$\leq 10 \text{ mA}$

$\leq 10 \text{ mA}$

Leakge Current I_r

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

Switching Frequency f

2000 Hz

1000 Hz

2000 Hz

1000 Hz

Hysteresis H

$\leq 15 \%$

$\leq 15 \%$

$\leq 15 \%$

$\leq 15 \%$

Operating Temperature T_a

-25°C ... +70°C

-25°C ... +70°C

-25°C ... +70°C

-25°C ... +70°C

Temperature Drift

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Repeat Accuracy R

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Protection Class

IP 67

IP 67

IP 67

IP 67

Switching State

LED

LED

LED

LED

EMC-Standard

IEC 60947-5-2

IEC 60947-5-2

IEC 60947-5-2

IEC 60947-5-2

Housing Material

Brass Nickel-Plated

Brass Nickel-Plated

Brass Nickel-Plated

Brass Nickel-Plated

Front Cap

PCP

PCP

PCP

PCP

Termination

Cable 3 x 0,34

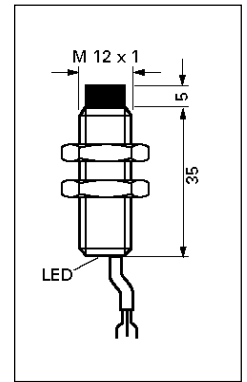
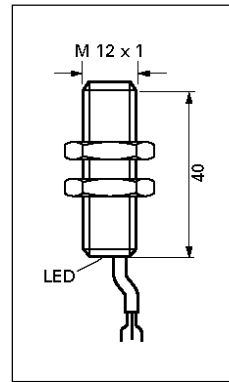
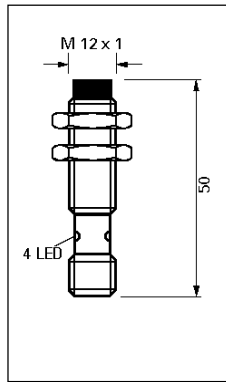
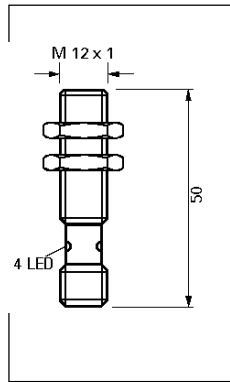
Cable 3 x 0,34

M8 3-pol. Connector

M8 3-pol. Connector

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance

2,0 mm

4,0 mm

2,0mm

4,0 mm

Mounting

Shielded

Non - Shielded

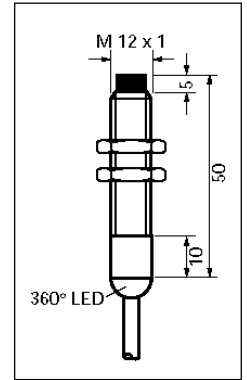
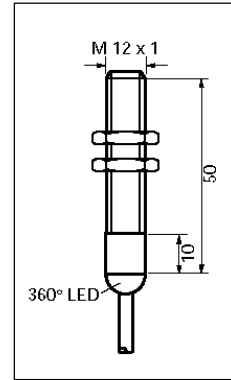
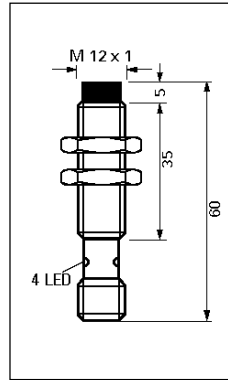
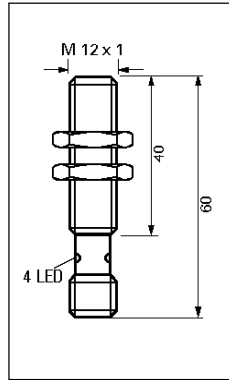
Shielded

Non - Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ2-M12MB50-DPS-V2 9982-2065	KJ4-M12MN50-DPS-V2 9982-2265	KJ2-M12MB40-DPS 9962-4000	KJ4-M12MN40-DPS 9962-4200
PNP Normally Close				
NPN Normally Open	KJ2-M12MB50-DNS-V2 9982-2165	KJ4-M12MN50-DNS-V2 9982-2365	KJ2-M12MB40-DNS 9962-4100	KJ4-M12MN40-DNS 9962-4300
NPN Normally Close				
PNP Changeover				
NPN Changeover				
Operating Voltage U_b	18 - 30 V DC	18 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 1,5 \text{ V}$	$\leq 1,5 \text{ V}$	$\leq 1,5 \text{ V}$	$\leq 1,5 \text{ V}$
Max. Load Current I_o	120 mA	120 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	2000 Hz	1000 Hz	2000 Hz	1000 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_s	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M12 4-pol. Connector	M12 4-pol. Connector	Cable 3 x 0,34	Cable 3 x 0,34

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance
Mounting

2,0 mm
Shielded

4,0 mm
Non - Shielded

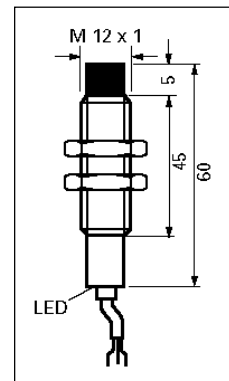
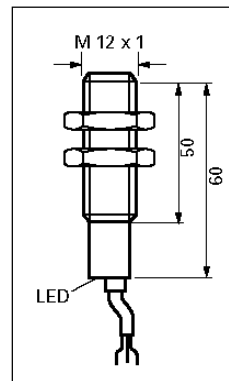
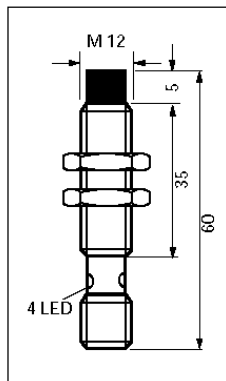
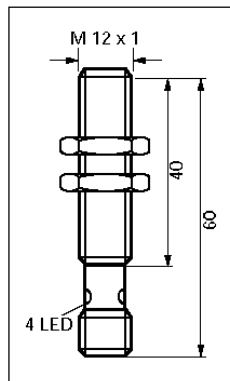
4,0mm
Shielded

4,0 mm
Non - Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ2-M12MB60-DPS-V2 9962-4065	KJ4-M12MN60-DPS-V2 9962-4265	KJ4-M12MB50-DPS 9982-1000	KJ6-M12MN50-DPS 9982-1200
PNP Normally Close			KJ4-M12MB50-DPÖ 9982-1400	KJ6-M12MN50-DPÖ 9982-1600
NPN Normally Open	KJ2-M12MB60-DNS-V2 9962-4165	KJ4-M12MN60-DNS-V2 9962-4365	KJ4-M12MB50-DNS 9982-1100	KJ6-M12MN50-DNS 9982-1300
NPN Normally Close			KJ4-M12MB50-DNÖ 9982-1500	KJ6-M12MN50-DNÖ 9982-1700
PNP Changeover				
NPN Changeover				
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 35 V DC	10 - 35 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_r	200 mA	200 mA	200 mA	200 mA
Off-State Current I_r	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	2000 Hz	1000 Hz	2500 Hz	2000 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	typ. $5 \% \leq 10 \%$	typ. $5 \% \leq 10 \%$
Operating Temperature T_s	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$	$-25^\circ\text{C} \dots +70^\circ\text{C}$
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M12 4-pol. Connector	M12 4-pol. Connector	Cable 3 x 0,34	Cable 3 x 0,34

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance

4,0 mm

6,0 mm

2,0mm

4,0 mm

Mounting

Shielded

Non - Shielded

Shielded

Non - Shielded

PNP Normally Open

KJ4-M12MB60-DPS-V2
9982-1050

KJ6-M12MN60-DPS-V2
9982-1250

PNP Normally Close

KJ4-M12MB60-DPÖ-V2
9982-1450

KJ6-M12MN60-DPÖ-V2
9982-1650

NPN Normally Open

KJ4-M12MB60-DNS-V2
9982-1150

KJ6-M12MN60-DNS-V2
9982-1350

NPN Normally Close

KJ4-M12MB60-DNÖ-V2
9982-1550

KJ6-M12MN60-DNÖ-V2
9982-1750

PNP Changeover

KJ2-M12BM60-DPA
9962-6200

KJ4-M12MN60-DPA
9962-6300

NPN Changeover

Operating Voltage U_b

10 - 35 V DC

10 - 35 V DC

10 - 30 V DC

10 - 30 V DC

Ripple Voltage U_b

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Voltage Drop U_d

$\leq 2,4 \text{ V}$

$\leq 2,4 \text{ V}$

$\leq 2,4 \text{ V}$

$\leq 2,4 \text{ V}$

Max. Load Current I_r

200 mA

200 mA

200 mA

200 mA

Off-State Current I_o

$\leq 10 \text{ mA}$

$\leq 10 \text{ mA}$

$\leq 15 \text{ mA}$

$\leq 15 \text{ mA}$

Leakge Current I_r

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

Switching Frequency f

2500 Hz

2000 Hz

2000 Hz

1000 Hz

Hysteresis H

typ. 5% $\leq 10 \%$

typ. 5% $\leq 10 \%$

$\leq 15 \%$

$\leq 15 \%$

Operating Temperature T_a

$-25^\circ\text{C} \dots +70^\circ\text{C}$

$-25^\circ\text{C} \dots +70^\circ\text{C}$

$-25^\circ\text{C} \dots +70^\circ\text{C}$

$-25^\circ\text{C} \dots +70^\circ\text{C}$

Temperature Drift

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Repeat Accuracy R

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Protection Class

IP 67

IP 67

IP 67

IP 67

Switching State

LED

LED

LED

LED

EMC-Standard

IEC 60947-5-2

IEC 60947-5-2

IEC 60947-5-2

IEC 60947-5-2

Housing Material

Brass Nickel-Plated

Brass Nickel-Plated

Brass Nickel-Plated

Brass Nickel-Plated

Front Cap

PCP

PCP

PCP

PCP

Termination

M12 4-pol. Connector

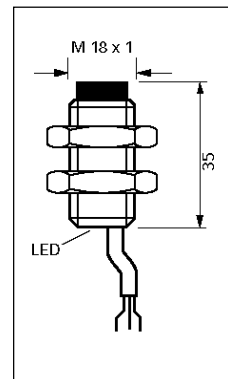
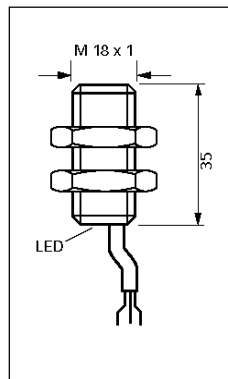
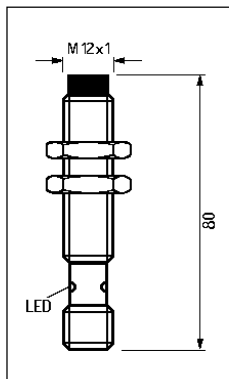
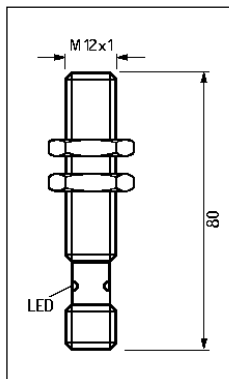
M12 4-pol. Connector

Cable 4 x 0,34

Cable 4 x 0,34

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance
Mounting

2,0mm
Shielded

4,0 mm
Non - Shielded

5,0mm
Shielded

8,0 mm
Non - Shielded

Type

Type

Type

Type

Type

PNP Normally Open

KJ5-M18MB35-DPS

9984-2000

KJ8-M18MN35-DPS

9984-2200

PNP Normally Close

NPN Normally Open

KJ5-M18MB35-DNS

9984-2100

KJ8-M18MN35-DNS

9984-2300

NPN Normally Close

PNP Changeover

KJ2-M12MB80-DPA-V2
9962-6265

KJ4-M12MN80-DPA-V2
9962-6365

NPN Changeover

Operating Voltage U_b

10 - 30 V DC

10 - 30 V DC

18 - 30 V DC

18 - 30 V DC

Ripple Voltage U_b

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Voltage Drop U_d

$\leq 2,4 \text{ V}$

$\leq 2,4 \text{ V}$

$\leq 1,5 \text{ V}$

$\leq 1,5 \text{ V}$

Max. Load Current I_o

200 mA

200 mA

120 mA

120 mA

Off-State Current I_o

$\leq 15 \text{ mA}$

$\leq 15 \text{ mA}$

$\leq 10 \text{ mA}$

$\leq 10 \text{ mA}$

Leakge Current I_r

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

$\leq 10 \mu\text{A}$

Switching Frequency f

2000 Hz

1000 Hz

1000 Hz

500 Hz

Hysteresis H

$\leq 15 \%$

$\leq 15 \%$

$\leq 15 \%$

$\leq 15 \%$

Operating Temperature T_s

-25°C ... +70°C

-25°C ... +70°C

-25°C ... +70°C

-25°C ... +70°C

Temperature Drift

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Repeat Accuracy R

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

$\leq 10 \%$

Protection Class

IP 67

IP 67

IP 67

IP 67

Switching State

LED

LED

LED

LED

EMC-Standard

IEC 60947-5-2

IEC 60947-5-2

IEC 60947-5-2

IEC 60947-5-2

Housing Material

Brass Nickel-Plated

Brass Nickel-Plated

Brass Nickel-Plated

Brass Nickel-Plated

Front Cap

PCP

PCP

PCP

PCP

Termination

M12 4-pol. Connector

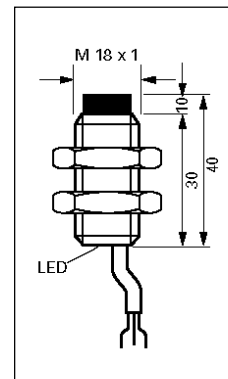
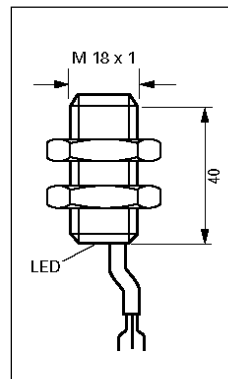
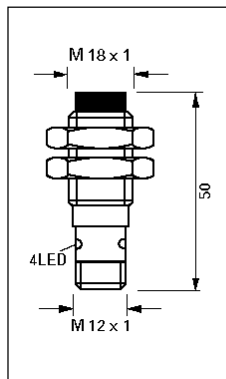
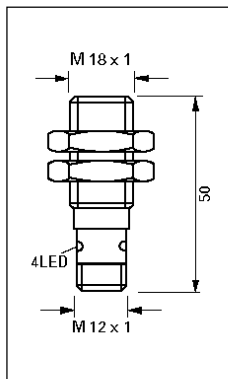
M12 4-pol. Connector

Cable 3 x 0,34

Cable 3 x 0,34

More special versions by separate inquiries!

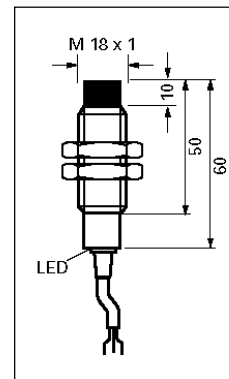
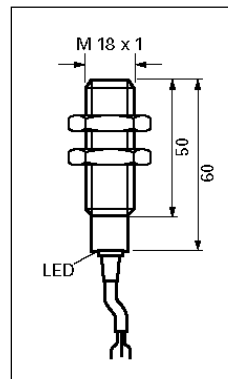
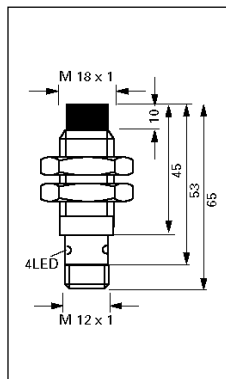
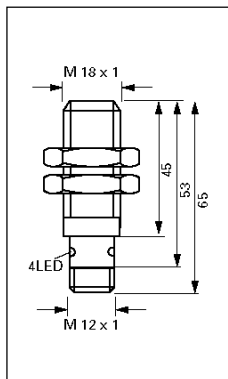
Connection and Termination picture at page 3.



Switching Distance	5,0mm	8,0 mm	5,0mm	8,0 mm
Mounting	Shielded	Non - Shielded	Shielded	Non - Shielded
	Type	Type	Type	Type
PNP Normally Open	KJ5-M18MB50-DPS-V2 9984-2065	KJ8-M18MN50-DPS-V2 9984-2265	KJ5-M18MB40-DPS 9964-4000	KJ8-M18MN40-DPS 9964-4200
PNP Normally Close			KJ5-M18MB40-DPÖ 9964-4400	KJ8-M18MN40-DPÖ 9964-4600
NPN Normally Open	KJ5-M18MB50-DNS-V2 9984-2165	KJ8-M18MN50-DNS-V2 9984-2365	KJ5-M18MB40-DNS 9964-4100	KJ8-M18MN40-DNS 9964-4300
NPN Normally Close			KJ5-M18MB40-DNÖ 9964-4500	KJ8-M18MN40-DNÖ 9964-4700
PNP Changeover				
NPN Changeover				
Operating Voltage U_b	18 - 30 V DC	18 - 30 V DC	18 - 30 V DC	18 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 1,5 \text{ V}$	$\leq 1,5 \text{ V}$	$\leq 1,5 \text{ V}$	$\leq 1,5 \text{ V}$
Max. Load Current I_o	120 mA	120 mA	120 mA	120 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	1000 Hz	500 Hz	1000 Hz	500 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_s	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M12 4-pol. Connector	M12 4-pol. Connector	Cable 3 x 0,34	Cable 3 x 0,34

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance
Mounting

5,0 mm
Shielded

8,0 mm
Non - Shielded

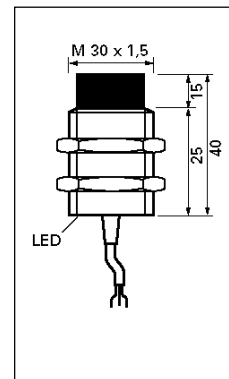
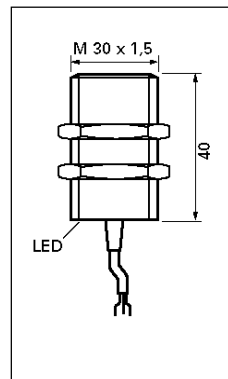
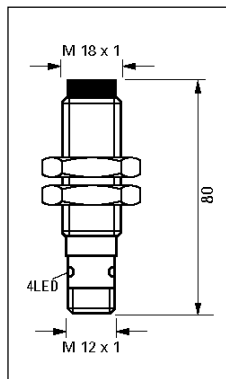
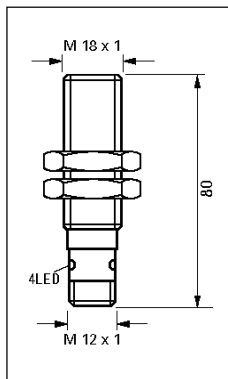
5,0mm
Shielded

4,0 mm
Non - Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ5-M18MB65-DPS-V2 9964-4065	KJ8-M18MN65-DPS-V2 9964-4265		
PNP Normally Close	KJ5-M18MB65-DPÖ-V2 9964-4465	KJ8-M18MN65-DPÖ-V2 9964-4665		
NPN Normally Open	KJ5-M18MB65-DNS-V2 9964-4165	KJ8-M18MN65-DNS-V2 9964-4365		
NPN Normally Close	KJ5-M18MB65-DNÖ-V2 9964-4565	KJ8-M18MN65-DNÖ-V2 9964-4765		
PNP Changeover			KJ5-M18MB60-DPA 9964-6200	KJ8-M18MN60-DPA 9964-6300
NPN Changeover				
Operating Voltage U_b	10 - 30V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_r	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 15 \text{ mA}$	$\leq 15 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	1000 Hz	500 Hz	1000 Hz	500 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_s	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M12 4-pol. Connector	M12 4-pol. Connector	Cable 4 x 0,34	Cable 4 x 0,34

More special versions by separate inquiries!

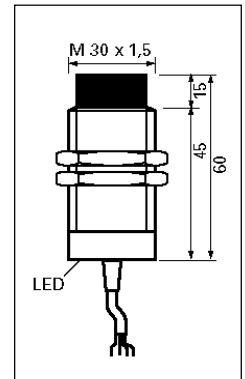
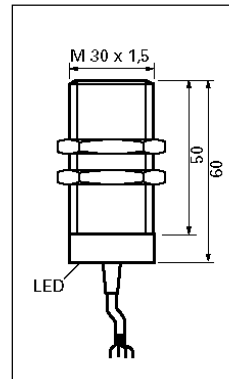
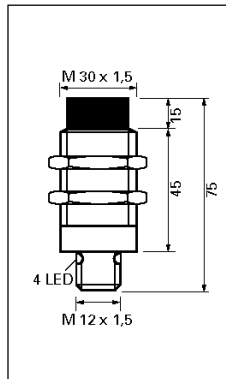
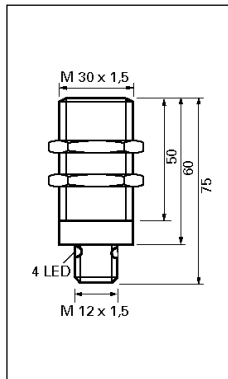
Connection and Termination picture at page 3.



Switching Distance	5,0 mm	8,0 mm	10,0mm	15,0 mm
Mounting	Shielded	Non - Shielded	Shielded	Non - Shielded
Type	Type	Type	Type	Type
PNP Normally Open			KJ10-M30MB40-DPS 9966-4000	KJ15-M30MN40-DPS 9966-4200
PNP Normally Close			KJ10-M30MB40-DPÖ 9966-4400	KJ15-M30MN40-DPÖ 9966-4600
NPN Normally Open			KJ10-M30MB40-DNS 9966-4100	KJ15-M30MN40-DNS 9966-4300
NPN Normally Close			KJ10-M30MB40-DNÖ 9966-4500	KJ15-M30MN40-DNÖ 9966-4700
PNP Changeover	KJ5-M18MB80-DPA-V2 9964-6265	KJ5-M18MN80-DPA-V2 9964-6365		
NPN Changeover				
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_o	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	1000 Hz	500 Hz	500 Hz	300 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_s	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M12 4-pol. Connector	M12 4-pol. Connector	Cable 3 x 0,34	Cable 3 x 0,34

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance

10,0 mm

15,0 mm

10,0mm

15,0 mm

Mounting

Shielded

Non - Shielded

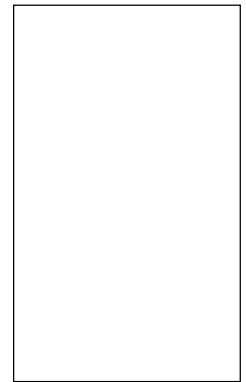
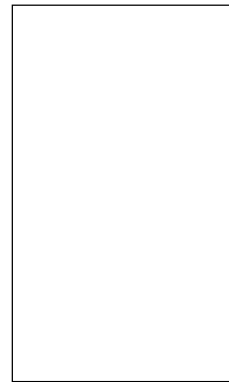
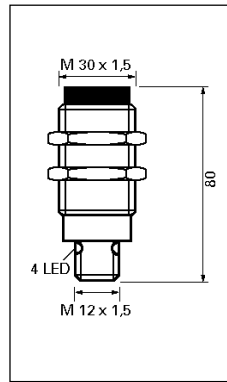
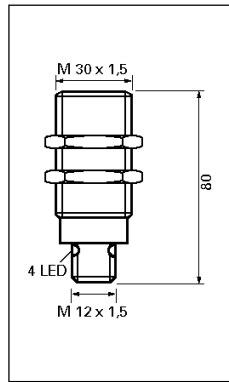
Shielded

Non - Shielded

	Type	Type	Type	Type
PNP Normally Open	KJ10-M30MB75-DPS-V2 9966-4065	KJ15-M30MN75-DPS-V2 9966-4265		
PNP Normally Close	KJ10-M30MB75-DPÖ-V2 9966-4465	KJ15-M30MN75-DPÖ-V2 9966-4665		
NPN Normally Open	KJ10-M30MB75-DNS-V2 9966-4165	KJ15-M30MN75-DNS-V2 9966-4365		
NPN Normally Close	KJ10-M30MB75-DNÖ-V2 9966-4565	KJ15-M30MN75-DNÖ-V2 9966-4765		
PNP Changeover			KJ10-M30MB60-DPA 9966-6200	KJ10-M30MN60-DPA 9966-6300
NPN Changeover				
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$
Max. Load Current I_o	200 mA	200 mA	200 mA	200 mA
Off-State Current I_o	$\leq 10 \text{ mA}$	$\leq 10 \text{ mA}$	$\leq 15 \text{ mA}$	$\leq 15 \text{ mA}$
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$
Switching Frequency f	500 Hz	300 Hz	500 Hz	300 Hz
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$	$\leq 15 \%$
Operating Temperature T_a	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$	$\leq 10 \%$
Protection Class	IP 67	IP 67	IP 67	IP 67
Switching State	LED	LED	LED	LED
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2	IEC 60947-5-2
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated	Brass Nickel-Plated
Front Cap	PCP	PCP	PCP	PCP
Termination	M12 4-pol. Connector	M12 4-pol. Connector	Cable 4 x 0,34	Cable 4 x 0,34

More special versions by separate inquiries!

Connection and Termination picture at page 3.



Switching Distance	10,0mm	15,0 mm		
Mounting	Shielded	Non - Shielded		
	Type	Type		
PNP Normally Open				
PNP Normally Close				
NPN Normally Open				
NPN Normally Close				
PNP Changeover	KJ10-M30MB80-DPA-V2 9966-6265	KJ10-M30MN80-DPA-V2 9966-6365		
NPN Changeover				
Operating Voltage U_b	10 - 30 V DC	10 - 30 V DC		
Ripple Voltage U_b	$\leq 10 \%$	$\leq 10 \%$		
Voltage Drop U_d	$\leq 2,4 \text{ V}$	$\leq 2,4 \text{ V}$		
Max. Load Current I_o	200 mA	200 mA		
Off-State Current I_o	$\leq 15 \text{ mA}$	$\leq 15 \text{ mA}$		
Leakge Current I_r	$\leq 10 \mu\text{A}$	$\leq 10 \mu\text{A}$		
Switching Frequency f	500 Hz	300 Hz		
Hysteresis H	$\leq 15 \%$	$\leq 15 \%$		
Operating Temperature T_s	-25°C ... +70°C	-25°C ... +70°C		
Temperature Drift	$\leq 10 \%$	$\leq 10 \%$		
Repeat Accuracy R	$\leq 10 \%$	$\leq 10 \%$		
Protection Class	IP 67	IP 67		
Switching State	LED	LED		
EMC-Standard	IEC 60947-5-2	IEC 60947-5-2		
Housing Material	Brass Nickel-Plated	Brass Nickel-Plated		
Front Cap	PCP	PCP		
Termination	M12 4-pol. Connector	M12 4-pol. Connector		

More special versions by separate inquiries!

Connection and Termination picture at page 3.

Type	Art-Nr.	Site	Type	Art-Nr.	Site
G6,5					
SJ1,5-G6,5EB30-DPA	08313651564	4	KJ4-M12MN50-DPS-V1	08317822264	9
SJ1,5-G6,5EB30-DNA	08313651554	4	KJ4-M12MN50-DNS-V1	08317822364	9
SJ1,5W-G6,5EB30-DPA	08313651566	4	KJ4-M12MN50-DPS-V2	08317822265	10
SJ1,5W-G6,5EB30-DNA	08313651556	4	KJ4-M12MN50-DNS-V2	08317822365	10
KJ2-G6,8MB30-DPS	08317816000	4			
KJ2-G6,5MB50-DPS-V1	08317816064	5	M12		
SJ2,5-G6,5EN45-DPA	08313650264	5	KJ4-M12MN60-DPA	08317626300	12
SJ2,5-G6,5EN45-DNA	08313650254	5	KJ4-M12MN60-DPS-V2	08317624265	11
KJ3-G6,5MN33-DPS	08317816200	4	KJ4-M12MN60-DNS-V2	08317624365	11
KJ3-G6,5MN53-DPS-V1	08317816264	5	KJ4-M12MB60-DPS-V2	08317821050	12
			KJ4-M12MB60-DPÖ-V2	08317821450	12
			KJ4-M12MB60-DNS-V2	08317821150	12
			KJ4-M12MB60-DNÖ-V2	08317821550	12
			KJ4-M12MN80-DPA-V2	08317626365	13
M8			KJ6-M12MB50-DPS	08317821200	11
KJ1,5-M8MB40-DPS	08317610200	5	KJ6-M12MB50-DPÖ	08317821600	11
KJ1,5-M8MB40-DNS	08317610300	5	KJ6-M12MB50-DNS	08317821300	11
SJ1,5-M8EB45-DPA	08313081560	7	KJ6-M12MB50-DNÖ	08317821700	11
SJ1,5-M8EB45-DNA	08313081550	7	KJ6-M12MB60-DPS-V2	08317821250	12
SJ1,5W-M8EB45-DPA	08313081566	7	KJ6-M12MB60-DPÖ-V2	08317821650	12
SJ1,5W-M8EB45-DNA	08313081556	7	KJ6-M12MB60-DNS-V2	08317821350	12
KJ1,5-M8MB50-DPS-V1	08317610264	6	KJ6-M12MB60-DNÖ-V2	08317821750	12
KJ1,5-M8MB50-DNS-V1	08317610364	6			
KJ2-M8MB33-DPS	08317811000	6	M18		
KJ2-M8MB33-DPÖ	08317811400	6	KJ5-M18MB35-DPS	08317842000	13
KJ2-M8MB33-DNS	08317811100	6	KJ5-M18MB35-DNS	08317842100	13
KJ2-M8MB33-DNÖ	08317811500	6	KJ5-M18MB40-DPS	08317644000	14
KJ2-M8MN40-DPS	08317610400	6	KJ5-M18MB40-DPÖ	08317644400	14
KJ2-M8MN40-DNS	08317610500	6	KJ5-M18MB40-DNS	08317644100	14
SJ2-M8EN45-DPA	08313082560	7	KJ5-M18MB40-DNÖ	08317644500	14
SJ2-M8EN45-DNA	08313082550	7	KJ5-M18MB50-DPS-V2	08317842065	14
KJ2-M8MN50-DPS-V1	08317610464	6	KJ5-M18MB50-DNS-V2	08317842165	14
KJ2-M8MN50-DNS-V1	08317610564	6	KJ5-M18MB60-DPA	08317646200	15
KJ2-M8MB50-DPS-V1	08317811064	8	KJ5-M18MB65-DPS-V2	08317644065	15
KJ2-M8MB50-DPÖ-V1	08317811464	8	KJ5-M18MB65-DPÖ-V2	08317644465	15
KJ2-M8MB50-DNS-V1	08317811164	8	KJ5-M18MB65-DNS-V2	08317644165	15
KJ2-M8MB50-DNÖ-V1	08317811564	8	KJ5-M18MB65-DNÖ-V2	08317644565	15
KJ2-M8MB58-DPS-V2	08317811050	8	KJ5-M18MB80-DPA-V2	08317646265	16
KJ2-M8MB58-DPÖ-V2	08317811450	8	KJ8-M18MN35-DPS	08317842200	13
KJ2-M8MB58-DNS-V2	08317811150	8	KJ8-M18MN35-DNS	08317842300	13
KJ2-M8MB58-DNÖ-V2	08317811550	8	KJ8-M18MN40-DPS	08317644200	14
KJ3-M8MN33-DPS	08317811200	7	KJ8-M18MN40-DPÖ	08317644600	14
KJ3-M8MN33-DPÖ	08317811600	7	KJ8-M18MN40-DNS	08317644300	14
KJ3-M8MN33-DNS	08317811300	7	KJ8-M18MN40-DNÖ	08317644700	14
KJ3-M8MN33-DNÖ	08317811700	7	KJ8-M18MN50-DPS-V2	08317842265	14
KJ3-M8MN50-DPS-V1	08317811264	8	KJ8-M18MN50-DNS-V2	08317842365	14
KJ3-M8MN50-DPÖ-V1	08317811664	8	KJ8-M18MN60-DPA	08317646300	15
KJ3-M8MN50-DNS-V1	08317811364	8	KJ8-M18MN65-DPS-V2	08317644265	15
KJ3-M8MN50-DNÖ-V1	08317811764	8	KJ8-M18MN65-DPÖ-V2	08317644665	15
KJ3-M8MN58-DPS-V2	08317811250	8	KJ8-M18MN65-DNS-V2	08317644365	15
KJ3-M8MN58-DPÖ-V2	08317811650	8	KJ8-M18MN65-DNÖ-V2	08317644765	15
KJ3-M8MN58-DNS-V2	08317811350	8	KJ8-M18MN80-DPA-V2	08317646365	16
KJ3-M8MN58-DNÖ-V2	08317811750	8			
			M30		
M12			KJ10-M30MB40-DPS	08317664000	16
KJ2-M12MB35-DPS	08317822000	9	KJ10-M30MB40-DPÖ	08317664400	16
KJ2-M12MB35-DNS	08317822100	9	KJ10-M30MB40-DNS	08317664100	16
KJ2-M12MB40-DPS	08317624000	10	KJ10-M30MB40-DNÖ	08317664500	16
KJ2-M12MB40-DNS	08317624100	10	KJ10-M30MB60-DPA	08317666200	17
KJ2-M12MB50-DPS-V1	08317822064	9	KJ10-M30MB75-DPS-V2	08317664065	17
KJ2-M12MB50-DNS-V1	08317822164	9	KJ10-M30MB75-DPÖ-V2	08317664465	17
KJ2-M12MB50-DPS-V2	08317822065	10	KJ10-M30MB75-DNS-V2	08317664165	17
KJ2-M12MB50-DNS-V2	08317822165	10	KJ10-M30MB75-DNÖ-V2	08317664565	17
KJ2-M12MB60-DPA	08317626200	12	KJ10-M30MB80-DPA-V2	08317666265	18
KJ2-M12MB60-DPS-V2	08317624065	11	KJ15-M30MN40-DPS	08317664200	16
KJ2-M12MB60-DNS-V2	08317624165	11	KJ15-M30MN40-DPÖ	08317664600	16
KJ2-M12MB80-DPA-V2	08317626265	13	KJ15-M30MN40-DNS	08317664300	16
KJ4-M12MN35-DPS	08317822200	9	KJ15-M30MN40-DNÖ	08317664700	16
KJ4-M12MN35-DNS	08317822300	9	KJ15-M30MN60-DPA	08317666300	17
KJ4-M12MN40-DPS	08317624200	10	KJ15-M30MN75-DPS-V2	08317664265	17
KJ4-M12MN40-DNS	08317624300	10	KJ15-M30MN75-DPÖ-V2	08317664665	17
KJ4-M12MB50-DPS	08317821000	11	KJ15-M30MN75-DNS-V2	08317664365	17
KJ4-M12MB50-DPÖ	08317821400	11	KJ15-M30MN75-DNÖ-V2	08317664765	17
KJ4-M12MB50-DNS	08317821100	11	KJ15-M30MN80-DPA-V2	08317666365	18
KJ4-M12MB50-DNÖ	08317821500	11			

AUSTRALIA

PCA Plant Control & Automation Pty
LTD
Unit 3 No. 3 Hunter Street
2077 Hornsby NSW
Tel. 00 61 / 29 48 23 73 3
Fax 00 61 / 29 47 66 82 2
E-mail: sales@pca-us.com.au

CZECH REPUBLIC

Bibus S.R.O.
Videnská 125
63927 Brno
Tel. 00 42 / 05 47 12 53 24
Fax 00 42 / 05 47 12 53 10
E-mail: duchon@bibus.cz

FRANCE

Verco France
32, Rue Commandant Fuzier
Tel. 00 33 / 47 28 44 10 5
Fax 00 33 / 47 86 26 02 3
E-mail: verco@alyon.org

ITALY

Tritecnica S.R.L.
Viale Lazio 26
20135 Milano
Tel. 00 39 / 02-54 19 45 2
Fax 00 39 / 02-55 18 12 97
E-mail: info@tritecnica.it

NETHERLANDS

Solar Elektro B.V.
Effect 5
6921 RG Duiven
Tel. 00 31 / 26 36 52 91
Fax 00 31 / 26 36 52 34 6
E-mail: algemeen@beng.nl

SPAIN

Automatica Electronica
Y Control S.L.
08018 Barcelona
Tel. 00 34 / 93 48 50 034
Fax 00 34 / 93 48 50 296
E-mail: p.dalmases@automatica-elec.es

SWEDEN

Tillquist Elteknik AB
Finlandsgatan 16
16422 Kista
Tel. 00 46 / 8-59 46 32 00
Fax 00 46 / 8-75 13 69 5
E-mail: info@tillquisteltechnik.se

SWITZERLAND

Ymatron AG
Brüelstraße 7
8157 Dielsdorf
Tel. 0041 / 18 55 23 88
Fax 0041 / 18 55 23 81
Email: info@ymatron.ch

USA

Altech Corp.
35 Royal Road
08822 Flemington NJ-6000
Tel. 00 1 / 90 88 06 94 00
Fax 00 1 / 90 88 06 94 9
E-mail: info@altechcorp.com

BELGIUM

Bintz Technics N.V.
Business Park
Brixtonlaan 25
1930 Zaventem
Tel. 00 32 / 27 20 49 16
Fax 00 32 / 27 20 37 50
E-Mail: beyens@bintz-technics.be

DENMARK

Scancomp
Bøgedals Allé 18
DK 5250 Odense SV
Tel. 00 45 / 66 11 29 89
Fax 00 45 / 66 11 29 63
E-mail: mh@scancomp.dk
Internet: www.scancomp.dk

GREECE

Panayiotis Vassiliou S.A.
91, Acharnon
10440 Athen
Te. 00 30 / 21 05 22 27 11
Fax 0030 / 21 05 24 67 5
E-mail: vasben@otenet.gr

JAPAN

System Electronic Co. Ltd.
2-13-3 Yayoi- Bunkyo-Ku
Tokyo
Tel. 0081 / 3 5803 7151
Fax 0081 / 3 5803 7152
E-mail: lsao@system-electronic-japan.co.jp

POLAND

P.W. Romex
Roman Siecla
UL. Wzlotowa 5
60411 Poznan
Tel. 00 48 / 61 84 17 82 4
Fax 00 48 / 61 84 36 34 3
E-mail: siecla.r@pwrromex.com.pl

SOUTH KOREA

EURO Cooperation
Room Nr. 103
Tae Sung BLDG 199-1
Jangsa-Dorg Jongro-Ku
Tel. 00 82 / 2-22 63 14 96 7
Fax 00 82 / 2-22 63 14 98
E-mail: europilz@chol.com

SWITZERLAND

Quarz AG
Wiesenstraße 2
8617 Mönchaltorf
Tel. 00 41 / 19 48 18 48
Fax 00 41 / 19 48 09 09
E-mail: robo@quarz.ch

SOUTH AFRICA

Countapulse Controls
Pty. Ltd.
P.O. Box 40393
Cleveland, 2022
Tel. 00 27 / 11-61 57 55 6
Fax 00 27 / 11-61 57 51 3
E-mail: clive@countapulse.co.za

CANADA

Sircon Controls Ltd.
5359 Timberlea Blvd., Unit 36
L4W4N5 Ontario
Tel. 00 1 / 90 5-23 89 50 5
Fax 00 1 / 90 5-23 88 38 0
E-mail: info@sirconcontrols.co

FINLAND

SKS-Automaatio Oy
Martinkyläntie 50
01721 Vantaa
Tel. 00 35 8 / 9-85 26 61
Fax 00 35 8 / 9-85 26 82 0
E-mail: sks-automaatio@sks.fi

ISRAEL

E.I.D. Electronics Ltd.
5, Saphir Street
Ramat Gan, 52622
Tel. 00 97 / 2-3-53 43 38 0
Fax 00 97 / 2-3-53 43 38 5
E-mail: eidelec@attglobal.net

NETHERLANDS

SEN-TECH Benelux B.V.
Middelweg 8 e
5253 CA Nieuwkuijk
Tel. 00 31 / 73 51 83 12 1
Fax 00 31 / 73 51 83 12 2
E-mail: info@sentech.nl

SLOVAKIA

Bibus SK S.R.O.
Priemyselna 4
94901 Nitra
Tel. 00 42 / 1-3 77 41 25 25
Fax 0042 / 1-3 77 51 67 01
E-mail: gyenes@bibus.sk

SWEDEN

Octab Industrielektronik AB
Leif Bergquist
Maskingatan 8B
19560 Märsta
Tel. 00 46 / 8-59 11 50 00
Fax 00 46 / 8-59 11 50 01
Email: info@octab.se

SWITZERLAND

Spälti Schaltgeräte AG
Wässerstraße 25
8340 Hinwil
Tel. 00 41 / 1-93 88 09 0
Fax 00 41 / 1-93 88 09 1
E-mail: spaelti-ag@swissonline.ch

TAIWAN

DWO & TOM Enterprise Co.
Majestic Trading Co. Ltd.
No. 178-4-Sec. 2
Chang an E. Road
Taipei Taiwan R.O.C.
Tel. 00 88 6 / 22 75 28 15 1
Fax 00 88 6 / 22 75 11 86 8
E-mail: dwotom@so-net.tw

Distribution office:

Postcode area:

20-29, 30, 31, 32, 38,
49

Uwe Reisewitz

Waakhauserstraße 9

D-28719 Bremen

Phone: +49 421 / 64 26 44

Fax: +49 421 / 64 40 28 1

Mobile: +49 171 / 63 75 86 8

Postcode area:

40, 41, 42, 44, 45, 46, 47, 48
50, 51, 52, 53, 54, 55, 56

Christoph Gilgenberg

Pascalstraße 22

D-53840 Troisdorf

Phone: +49 22 41 / 97 41 24

Fax: +49 22 41 / 97 30 63

Mobile: +49 171 / 63 75 86 6

Postcode area:

33-37, 57, 58, 59, 60,,
61, 63, 64, 65, 68, 69

Konrad Wiegand

Am Heydewolf 6

D-35274 Kirchhain

Phone: +49 64 22 / 92 29 23

Fax: +49 64 22 / 92 29 24

Mobile: +49 171 / 63 75 86 3

Postcode area:

01-04, 08-10, 11-19,
338, 39

Mark Braun

Neue Schichtstraße 14

D-09366 Niederdorf

Phone: +49 37 296 / 930 203

Fax: +49 37 296 / 930 187

Mobile: +49 171 / 637 58 57

Postcode area:

66, 67, 77, 78,
79, 721, 722

SKA Tec GmbH & Co. KG

Dieter Schley

Alemannenstraße 53

D-77767 Appenweier

Phone: +49 78 05 / 99 85 0

Fax: +49 78 05 / 91 02 55

Postcode area:

80, 81, 82, 83, 84, 85,
90, 91, 94

Adolf Hutner

Ascherbachweg 2a

D-85232 Neuhimmelreich

Phone: +49 81 31 / 35 08 73

Fax: +49 81 31 / 35 08 72

Mobile: +49 171 / 63 75 86 2

Postcode area:

92, 93, 95, 96, 97

C + R Automation GmbH

Christian Rott

Angerzeile 16

D-90513 Zirndorf

Phone: +49 911 / 60 43 67

Fax: +49 911 / 600 24 09

Mobile: +49 170 / 798 72 39

Postcode area:

70, 71, 72, 73, 74, 75,
76, 86- 89

Andreas Barth

Riedstraße 12

D-89269 Vöhringen

Phone: +49 73 06 / 92 40 82

Fax: +49 73 06 / 92 24 61

Mobile: +49 171 / 63 75 85 6

Postcode area:

06, 07, 98, 99

Riese Electronic GmbH

Thomas Schüler

Schleizerstraße 36 - 38

D-07937 Zeulenroda

Phone: +49 366 28 / 725 11

Fax: +49 366 28 / 725 17

Mobile: +49 172 / 367 13 62



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Pulsotronic GmbH & Co. KG

Neue Schichtstraße 14

D-09366 Niederdorf

Phone +49 37 296 / 930 200

Telefax +49 37 296 / 930 187

info@pulsotronic.de

www.pulsotronic.de