



# INDUCTIVE SENSORS SQUARE DC

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### Product overview

All sensors at a glance

23

version 27/14

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subject to  
modifications!



# INDUCTIVE SENSORS SQUARE DC

## NOTES

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# INDUCTIVE SENSORS SQUARE DC

## DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

1	2	3	4	5	6	7	8	9	10	11	12

### 1 = Working principle

<b>A</b>	Acoustic		
<b>B</b>	Acceleration sensor		
<b>C</b>	Capacitive		
<b>D</b>	Strain gauge sensor		
<b>H</b>	Hall-effect		
<b>J</b>	Inductive	<b>JR</b>	Inductive ring
		<b>JF</b>	Inductive surface
		<b>JG</b>	Inductive slot
		<b>JD</b>	Metal face
<b>M</b>	Magneto resistive		
<b>N</b>	Inclination sensor		
<b>R</b>	Reed-contact		
<b>W</b>	Angle sensor		

### 2 = Switching distance / range

### 3 = Design

<b>D</b>	Ring housing
<b>G</b>	Cylindrical housing without thread
<b>M</b>	Cylindrical housing with metrical thread
<b>Q</b>	Square housing

### 4 = Housing diameter / edge length

### 5 = Housing material

<b>A</b>	Aluminium
<b>E</b>	Stainless steel
<b>K</b>	Plastic
<b>M</b>	Brass, nickel plated
<b>T</b>	PTFE

### 6 = Installation

<b>B</b>	Shielded
<b>N</b>	Non shielded

### 7 = Tube length

### 8 = Operating voltage

<b>AZ</b>	AC alternating current voltage
<b>D</b>	DC direct current voltage
<b>VZ</b>	AC/DC all voltages

### 9 = Type of output signal

<b>AN</b>	Analog	<b>ANI</b>	Current output
		<b>ANU</b>	Voltage output
<b>CAN</b>	CAN-bus interface		
<b>N</b>	NPN		
<b>NA</b>	Namur		
<b>P</b>	PNP		
<b>Z</b>	Two wire		

### 10 = Function

<b>A</b>	Changeover
<b>I</b>	Impulse output
<b>Ö</b>	N.C.
<b>S</b>	N.O.
<b>U</b>	Switchable

### 11 = Type of connection

<b>V1</b>	M8 screw-/snap-in
<b>V2</b>	M12 metal
<b>V2/1</b>	M12 plastic
<b>V3</b>	M5 metal
<b>V4</b>	Amphenol Tuchel
<b>V6</b>	Brad Harrison 7/8" UNF
<b>V7</b>	Valve connector type A
<b>V8</b>	M8 snap-in only
<b>V9</b>	Torson
<b>V10</b>	Valve connector type C
<b>V11</b>	AC connector 1/2" UNF
<b>V12</b>	M18 plastic
<b>VE</b>	Euchner connector
<b>RS232</b>	Data interface
<b>PG</b>	Thread joint PG
<b>Mxx</b>	Tread joint metrical

others as requested

### 12 = Additional marks

<b>AM</b>	Sensing face in centre
<b>FE</b>	Reduction 1 to steel / iron
<b>HT</b>	High temperature
<b>NF</b>	Reduction 1 to nonferrous metal
<b>SF</b>	Weld field immune
<b>T</b>	Enlarged temperature range
<b>W</b>	Angled sensing face / angled cable exit
<b>X</b>	Customized design with detailed description



# INDUCTIVE SENSORS SQUARE DC

## CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	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 EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



# INDUCTIVE SENSORS SQUARE DC

## SQUARE Q5

### General data

<b>Mounting</b>	shielded
<b>Operating voltage <math>U_b</math></b>	10 ... 30V DC
<b>Ripple voltage <math>U_b</math></b>	$\leq 10\%$
<b>Voltage drop <math>U_d</math></b>	$\leq 1V$
<b>Max. load current</b>	200mA
<b>Off-state current <math>I_o</math></b>	$\leq 10mA$
<b>Residual current <math>I_r</math></b>	$\leq 10\mu A$
<b>Max. switching frequency <math>f</math></b>	2000Hz
<b>Hysteresis <math>H</math></b>	$\leq 15\%$
<b>Repeatability <math>R</math></b>	$\leq 1\%$
<b>Operating temperature <math>T_a</math></b>	-25°C ... +70°C
<b>Temperature drift</b>	$\leq 10\%$
<b>Protection class</b>	IP67
<b>EMV-standard</b>	according to EN 60947-5-2
<b>Switching state</b>	LED yellow
<b>Housing material</b>	brass, nickel-plated
<b>Front cap</b>	POM
<b>Connection</b>	2m cable PUR 3 x 0,15mm <sup>2</sup>

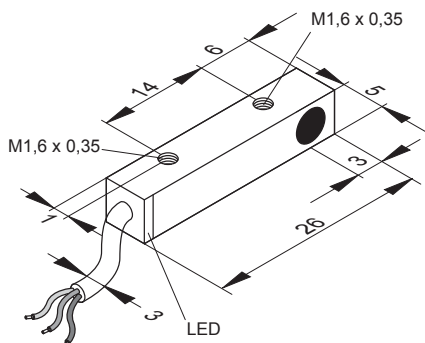


Other cable lengths as requested.

### Selection chart

Article number	Designation	Output signal
08313550110	KJ1-Q5MB26-DPS	PNP
08313550120	KJ1-Q5MB26-DPÖ	PNP
08313550130	KJ1-Q5MB26-DNS	NPN
08313550140	KJ1-Q5MB26-DNÖ	NPN
08313550160	KJ1-Q5MB26-DPS-X0429	NPN

### Dimensions



all data in mm



## SQUARE Q8

### General data

<b>Mounting</b>	shielded
<b>Operating voltage <math>U_b</math></b>	10 ... 30V DC
<b>Ripple voltage <math>U_r</math></b>	$\leq 10\%$ (KJ3... $\leq 20\%$ )
<b>Voltage drop <math>U_d</math></b>	$\leq 2,4V^*$
<b>Max. load current</b>	200mA
<b>Off-state current <math>I_0</math></b>	$\leq 13mA$ (KJ3... $\leq 20mA$ )
<b>Residual current <math>I_r</math></b>	$\leq 10\mu A$ (KJ3... $\leq 100\mu A$ )
<b>Max. switching frequency <math>f</math></b>	1000Hz
<b>Hysteresis <math>H</math></b>	$\leq 15\%$ (KJ3... $\leq 10\%$ )
<b>Repeatability <math>R</math></b>	$\leq 5\%$
<b>Operating temperature <math>T_a</math></b>	-25°C ... +70°C
<b>Temperature drift</b>	$\leq 10\%$
<b>Protection class</b>	IP67
<b>EMV-standard</b>	according to IEC 60947-5-2
<b>Switching state</b>	LED
<b>Housing material</b>	brass nickel-plated, aluminium
<b>Front cap</b>	brass: PCP aluminium: polyamide 6.6



### Selection chart brass

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing (next page)
08317611000	<b>KJ1,5-Q8MB40-DPS</b>	PNP	1,5	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08317611064	<b>KJ1,5-Q8MB60-DPS-V1</b>	PNP	1,5	connector M8 3-pole	B
08317611100	<b>KJ1,5-Q8MB40-DPS-AM</b>	PNP	1,5	2m cable PVC 3 x 0,14mm <sup>2</sup>	C
08317611164	<b>KJ1,5-Q8MB60-DPS-V1-AM</b>	PNP	1,5	connector M8 3-pole	D
08317612000	<b>KJ3-Q8MB40-DPS</b>	PNP	3	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08317612064	<b>KJ3-Q8MB60-DPS-V1</b>	PNP	3	connector M8 3-pole	E

Design NPN and other cable lengths as requested.

### Selection chart aluminium

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing (next page)
08310000475	<b>KJ2-Q8AB-DPS</b>	PNP	2	2m cable PVC 3 x 0,14mm <sup>2</sup>	F
08310020475	<b>KJ2-Q8AB-DPÖ</b>	PNP	2	2m cable PVC 3 x 0,14mm <sup>2</sup>	F
08310000509	<b>KJ2-Q8AB-DPS-V1</b>	PNP	2	connector M8 3-pole	G
0831xxxxxxx	<b>KJ2-Q8AB-DPÖ-V1</b>	PNP	2	connector M8 3-pole	G
08310000440	<b>KJ2-Q8AB-DPS-AM</b>	PNP	2	2m cable PVC 3 x 0,14mm <sup>2</sup>	H
08310000074	<b>KJ2-Q8AB-DPÖ-AM</b>	PNP	2	2m cable PVC 3 x 0,14mm <sup>2</sup>	H
08310000369	<b>KJ2-Q8AB-DPS-V1-AM</b>	PNP	2	connector M8 3-pole	I
0831xxxxxxx	<b>KJ2-Q8AB-DPÖ-V1-AM</b>	PNP	2	connector M8 3-pole	I
08310001035	<b>KJ2-Q8AB-DPS-V3</b>	PNP	2	connector M5 4-pole	J

Design NPN and other cable lengths as requested.

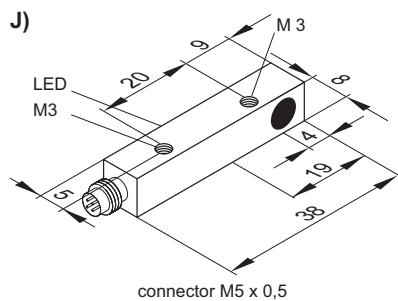
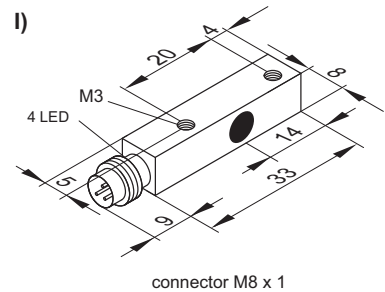
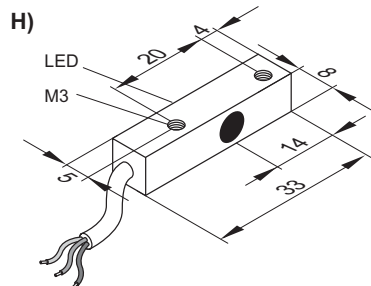
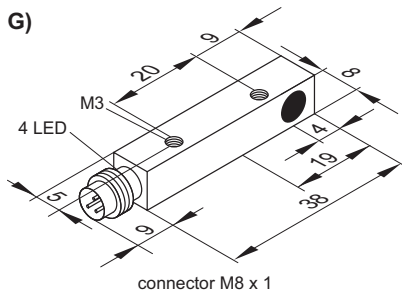
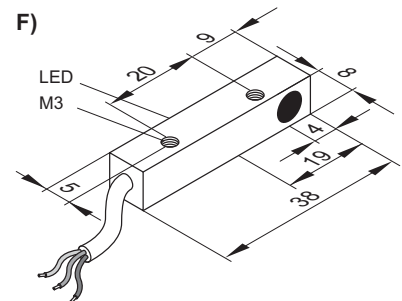
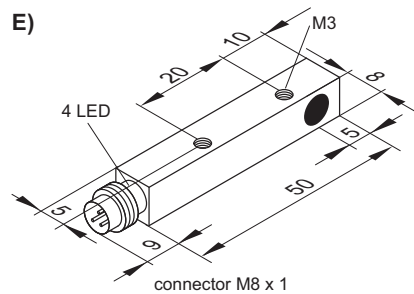
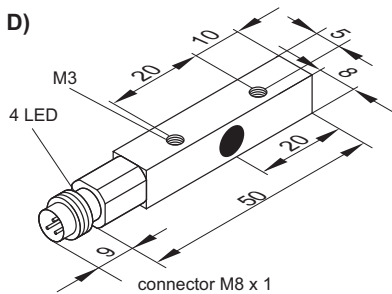
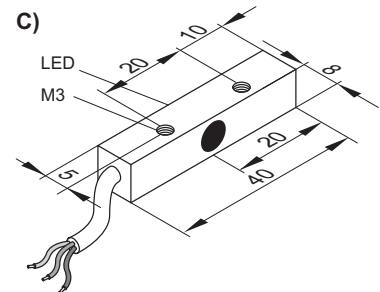
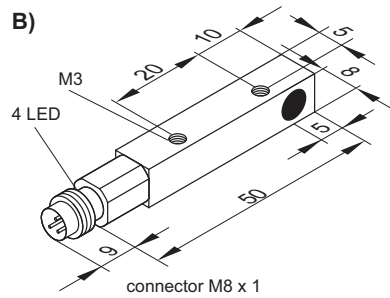
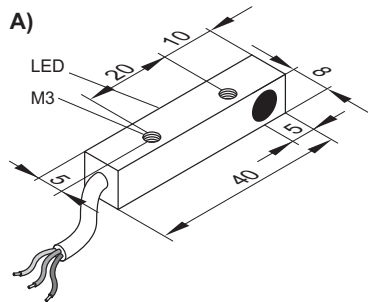
	Neue Schichtstraße 14b D-09366 Niederdorf	© +49 (0) 37296 / 930 - 200 +49 (0) 37296 / 930 - 280	info@pulsotronic.de www.pulsotronic.de	subject to modifications!
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# INDUCTIVE SENSORS SQUARE DC

## SQUARE Q8

### Dimensions



all data in mm



## SQUARE Q9,9

### General data

Mounting	shielded
Switching distance	2mm
Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_r$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	200mA
Off-state current $I_o$	$\leq 13mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	1000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 2\%$
Operating temperature $T_a$	-25°C ... +75°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	aluminium
Front cap	polyamide 6.6
Connection	2m cable PVC 3 x 0,14mm <sup>2</sup>

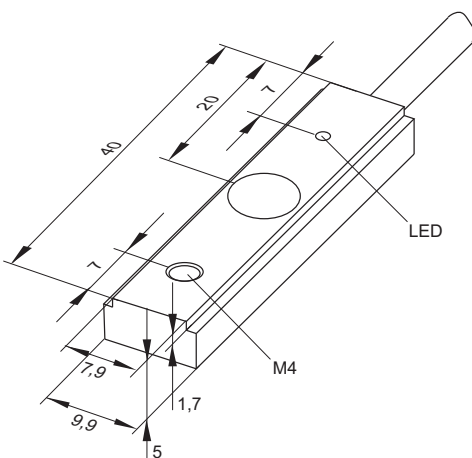


Design NPN and other cable lengths as requested.

### Selection chart

Article number	Designation	Output signal
08310000208	<b>KJ2-Q9,9AB-DPS</b>	PNP
08310000454	<b>KJ2-Q9,9AB-DPÖ</b>	PNP

### Dimensions



all data in mm





# INDUCTIVE SENSORS SQUARE DC

## SQUARE Q12

### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	200mA
Off-state current $I_o$	$\leq 13mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	1000Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 2\%$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	PBT



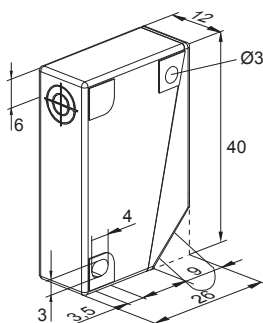
### Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317613000	KJ2-Q12KB-DPS	shielded	PNP	2	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317613400	KJ2-Q12KB-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317613064	KJ2-Q12KB-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08317613464	KJ2-Q12KB-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08317613200	KJ4-Q12KN-DPS	non shielded	PNP	4	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317613600	KJ4-Q12KN-DPÖ	non shielded	PNP	4	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317613264	KJ4-Q12KN-DPS-V1	non shielded	PNP	4	connector M8 3-pole	B
08317613664	KJ4-Q12KN-DPÖ-V1	non shielded	PNP	4	connector M8 3-pole	B
08310000527	KJ4-Q12KN-DPA	non shielded	PNP	4	2m cable PVC 4 x 0,34mm <sup>2</sup>	A
0831xxxxxxx	KJ6-Q12KN-DPS	non shielded	PNP	6	2m cable PVC 4 x 0,34mm <sup>2</sup>	A
0831xxxxxxx	KJ6-Q12KN-DPS-V1	non shielded	PNP	6	connector M8 3-pole	B

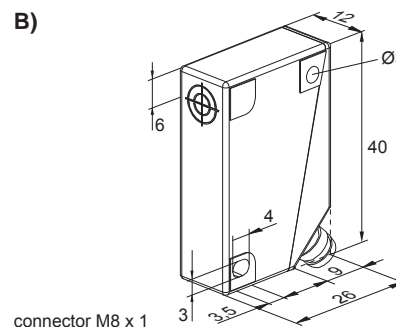
Design NPN and other cable lengths as requested.

### Dimensions

A)



B)



connector M8 x 1

all data in mm



# INDUCTIVE SENSORS SQUARE DC

## SQUARE Q25

### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	200mA
Off-state current $I_0$	$\leq 13mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	1000Hz (KJ8... 800Hz)
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 2\%$
Operating temperature $T_a$	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polyamide 6.6, aluminium



### Selection chart polyamide

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
0831000772	KJ5-Q25KB-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08310001285	KJ5-Q25KB-DPÖ	shielded	PNP	5	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
0831000203	KJ5-Q25KB-DPS-V1	shielded	PNP	5	connector M8 3-pole	B
0831000472	KJ5-Q25KB-DPÖ-V1	shielded	PNP	5	connector M8 3-pole	B
0831000901	KJ5-Q25KB-DPA	shielded	PNP	5	2m cable PVC 4 x 0,25mm <sup>2</sup>	A
0831000056	KJ8-Q25KN-DPS	non shielded	PNP	8	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08310001952	KJ8-Q25KN-DPÖ	non shielded	PNP	8	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
0831000508	KJ8-Q25KN-DPS-V1	non shielded	PNP	8	connector M8 3-pole	B
08310001883	KJ8-Q25KN-DPÖ-V1	non shielded	PNP	8	connector M8 3-pole	B
08310001079	KJ8-Q25KN-DPA	non shielded	PNP	8	2m cable PVC 4 x 0,25mm <sup>2</sup>	A

Design NPN and other cable lengths as requested.

### Selection chart aluminium

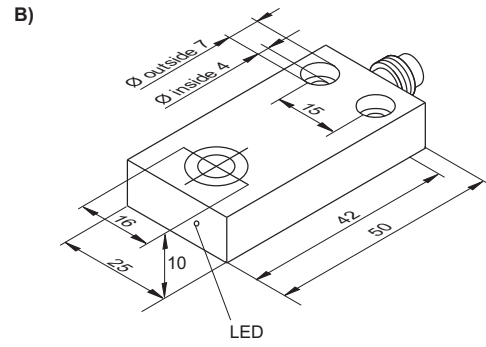
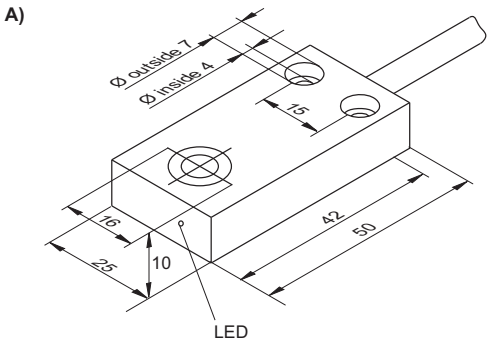
Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing (next page)
08310000229	KJ5-Q25AB-DPS	shielded	PNP	5	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
0831xxxxxxx	KJ5-Q25AB-DPÖ	shielded	PNP	5	2m cable PVC 3 x 0,34mm <sup>2</sup>	A

Design NPN and other cable lengths as requested.



# SQUARE Q25

## Dimensions



connector M8 x 1

all data in mm



# INDUCTIVE SENSORS SQUARE DC

## SQUARE Q28

### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	200mA
Off-state current $I_0$	$\leq 13mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	1000Hz (KJ4... 800Hz)
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 2\%$
Operating temperature $T_a$	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polyamide 6.6

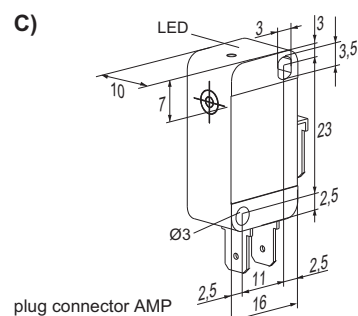
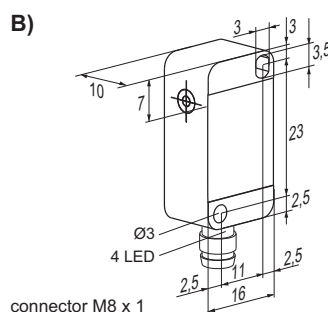
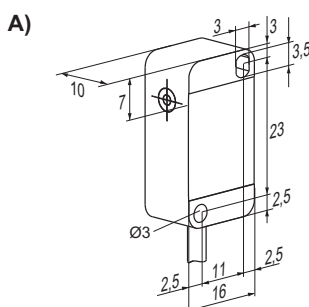


### Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08310000042	KJ2-Q28KB-DPS	shielded	PNP	2	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08310000437	KJ2-Q28KB-DPÖ	shielded	PNP	2	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08310000608	KJ2-Q28KB-DPS-V1	shielded	PNP	2	connector M8 3-pole	B
08310000632	KJ2-Q28KB-DPÖ-V1	shielded	PNP	2	connector M8 3-pole	B
08310006008	KJ2-Q28KB-DPS-AMP	shielded	PNP	2	3 x plug connector AMP	C
08310001094	KJ2-Q28KB-DNS-AMP	shielded	NPN	2	3 x plug connector AMP	C
08310000610	KJ4-Q28KN-DPS	non shielded	PNP	4	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08310002041	KJ4-Q28KN-DPÖ	non shielded	PNP	4	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08310000609	KJ4-Q28KN-DPS-V1	non shielded	PNP	4	connector M8 3-pole	B
08310020184	KJ4-Q28KN-DPÖ-V1	non shielded	PNP	4	connector M8 3-pole	B
08310000100	KJ6-Q28KN-DPS-V1	non shielded	PNP	6	connector M8 3-pole	B
08310001247	KJ6-Q28KN-DPÖ-V1	non shielded	PNP	6	connector M8 3-pole	B

Design NPN and other cable lengths as requested.

### Dimensions



all data in mm



# INDUCTIVE SENSORS SQUARE DC

## SQUARE Q40

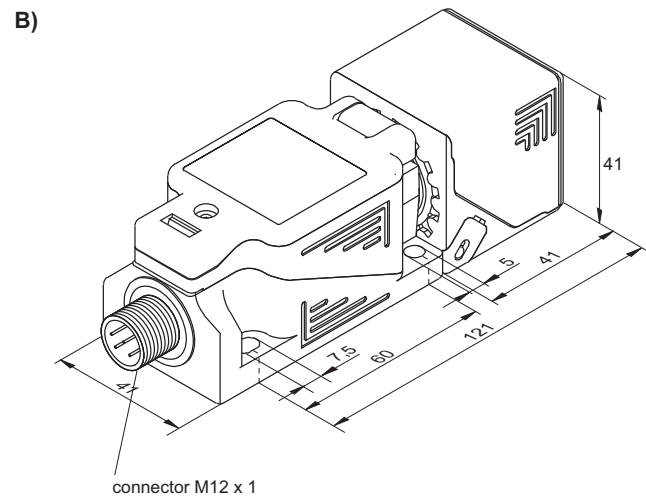
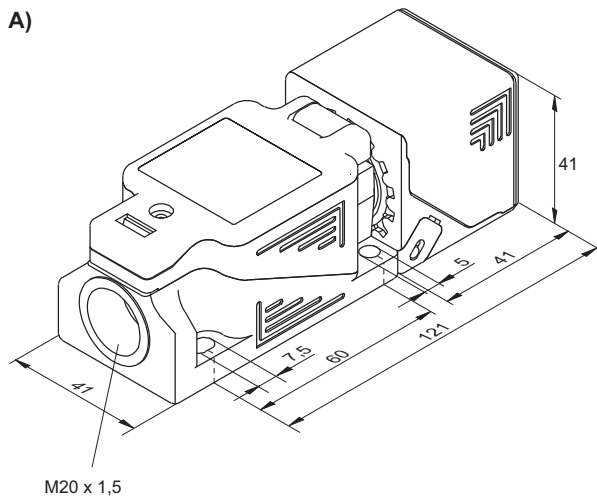
### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	see selection chart
Off-state current $I_0$	see selection chart
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	150Hz (KJ40... 70Hz)
Hysteresis $H$	$\leq 20\%$
Repeatability $R$	$\leq 5\%$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67 / see enclosed label*
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	trogamit T, polyamide 6.6



\* When fixing the cover with the enclosed screw and sealed cable gland IP67 (without using the enclosed screw IP65)

### Dimensions



all data in mm  
Selection chart on the next page



## SQUARE Q40

### Selection chart trogamit T

Article number	Designation	Former order number	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317633000	<b>KJ15-Q40KB-DPU</b>	9863-3000	shielded	PNP	15	clamps 1,5mm <sup>2</sup>	A
08317633300	<b>KJ15-Q40KB-DNU</b>	9863-3300	shielded	NPN	15	clamps 1,5mm <sup>2</sup>	A
08317633065	<b>KJ15-Q40KB-DPU-V2</b>	9863-3065	shielded	PNP	15	connector M12 4-pole	B
08317633365	<b>KJ15-Q40KB-DNU-V2</b>	9863-3365	shielded	NPN	15	connector M12 4-pole	B
08317633100	<b>KJ25-Q40KT-DPU</b>	9863-3100	quasi-shielded	PNP	25	clamps 1,5mm <sup>2</sup>	A
08317633400	<b>KJ25-Q40KT-DNU</b>	9863-3400	quasi-shielded	NPN	25	clamps 1,5mm <sup>2</sup>	A
08317633165	<b>KJ25-Q40KT-DPU-V2</b>	9863-3165	quasi-shielded	PNP	25	connector M12 4-pole	B
08317633465	<b>KJ25-Q40KT-DNU-V2</b>	9863-3465	quasi-shielded	NPN	25	connector M12 4-pole	B
08317633200	<b>KJ40-Q40KN-DPU</b>	9863-3200	non shielded	PNP	40	clamps 1,5mm <sup>2</sup>	A
08317633500	<b>KJ40-Q40KN-DNU</b>	9863-3500	non shielded	NPN	40	clamps 1,5mm <sup>2</sup>	A
08317633265	<b>KJ40-Q40KN-DPU-V2</b>	9863-3265	non shielded	PNP	40	connector M12 4-pole	B
08317633565	<b>KJ40-Q40KN-DNU-V2</b>	9863-3565	non shielded	NPN	40	connector M12 4-pole	B

Max. load current 400mA

Off-state current ≤ 34mA

### Selection chart polyamide 6.6

Article number	Designation	Former order number	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317832000	<b>KJ20-Q40KB-DPU</b>	9883-2000	shielded	PNP	20	clamps 2,5mm <sup>2</sup>	A
08317832300	<b>KJ20-Q40KB-DNU</b>	9883-2300	shielded	NPN	20	clamps 2,5mm <sup>2</sup>	A
08317832065	<b>KJ20-Q40KB-DPU-V2</b>	9883-2065	shielded	PNP	20	connector M12 4-pole	B
08317832365	<b>KJ20-Q40KB-DNU-V2</b>	9883-2365	shielded	NPN	20	connector M12 4-pole	B
08317832200	<b>KJ40-Q40KN-DPU</b>	9883-2200	non shielded	PNP	40	clamps 2,5mm <sup>2</sup>	A
08317832500	<b>KJ40-Q40KN-DNU</b>	9883-2500	non shielded	NPN	40	clamps 2,5mm <sup>2</sup>	A
08317832265	<b>KJ40-Q40KN-DPU-V2</b>	9883-2265	non shielded	PNP	40	connector M12 4-pole	B
08317832565	<b>KJ40-Q40KN-DNU-V2</b>	9883-2565	non shielded	NPN	40	connector M12 4-pole	B

Max. load current 120mA

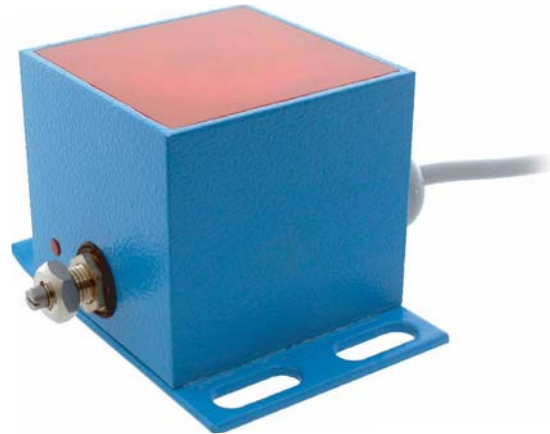
Off-state current ≤ 10mA



## SQUARE Q50

### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	400mA
Off-state current $I_0$	$\leq 18mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	300Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 2\%$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	aluminium
Front cap	drovidur



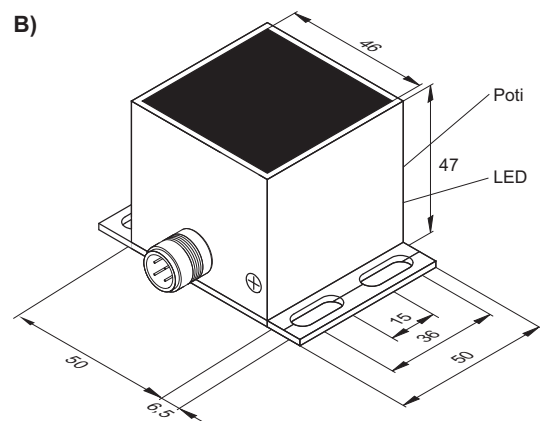
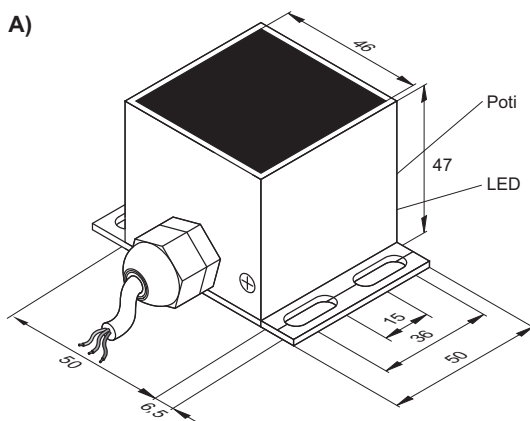
Switching distance adjustable via potentiometer.

### Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08317070900	<b>KJ40-Q50AB-DPS</b>	shielded	PNP	40	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317070100	<b>KJ40-Q50AB-DNS</b>	shielded	NPN	40	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317070965	<b>KJ40-Q50AB-DPS-V2</b>	shielded	PNP	40	connector M12 4-pole	B
08317070165	<b>KJ40-Q50AB-DNS-V2</b>	shielded	NPN	40	connector M12 4-pole	B

Other cable lengths as requested.

### Dimensions



connector M12 x 1

all data in mm



## SQUARE Q80

### General data

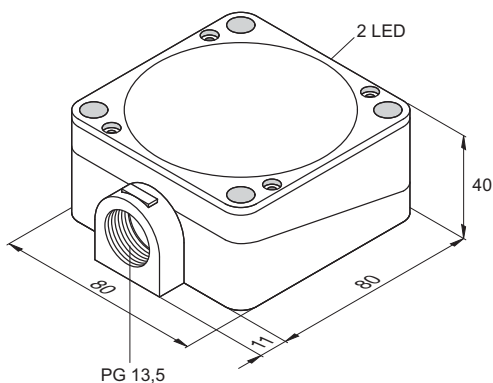
Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_r$	$\leq 10\%$
Voltage drop $U_a$	$\leq 3,0V$ (KJ50... $\leq 2,4V$ )
Max. load current	200mA
Off-state current $I_o$	$\leq 22mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	100Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 2\%$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



### Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection
08317651100	KJ40-Q80KB-DPA	shielded	PNP	40	clamping space
08317651000	KJ50-Q80KN-DPA	non shielded	PNP	50	clamping space

### Dimensions



all data in mm





## SQUARE Q100

### General data

Mounting	non shielded
Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 2,4V$
Max. load current	400mA
Off-state current $I_0$	$\leq 12mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	300Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 2\%$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	aluminium



\* For parallel mounting these sensors are available in 5 different frequencies.

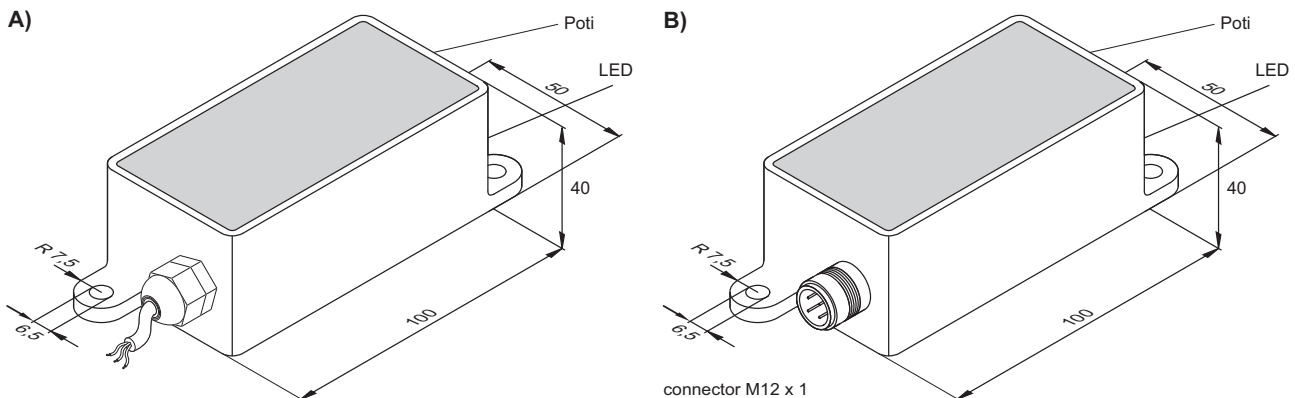
Switching distance adjustable via potentiometer.

### Selection chart

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing
08316090100	KJ70-Q100AN-DPS-F1	PNP	70	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317090300	KJ70-Q100AN-DNS-F1	NPN	70	2m cable PVC 3 x 0,34mm <sup>2</sup>	A
08317090165	KJ70-Q100AN-DPS-V2-F1	PNP	70	connector M12 4-pole	B
08317090365	KJ70-Q100AN-DNS-V2-F1	NPN	70	connector M12 4-pole	B

Other cable lengths as requested.

### Dimensions



all data in mm



# INDUCTIVE SENSORS MICRO SQUARE

## MICRO SQUARE Q6

### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 1,0V$
Max. load current	100mA
Off-state current $I_o$	$\leq 10mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	400Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 0,04mm$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



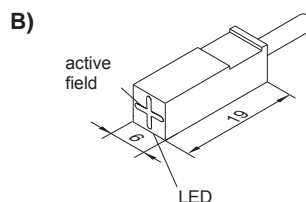
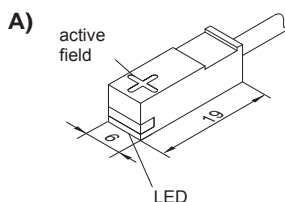
Mounting clamp included in delivery.

### Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08313661210	<b>SJ1,2-Q6KN19-DPS</b>	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313661220	<b>SJ1,2-Q6KN19-DPÖ</b>	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313661230	<b>SJ1,2-Q6KN19-DNS</b>	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313661240	<b>SJ1,2-Q6KN19-DNÖ</b>	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313661219	<b>SJ1,2W-Q6KN19-DPS</b>	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313661229	<b>SJ1,2W-Q6KN19-DPÖ</b>	non shielded	PNP	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313661239	<b>SJ1,2W-Q6KN19-DNS</b>	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313661249	<b>SJ1,2W-Q6KN19-DNÖ</b>	non shielded	NPN	1,2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B

Other cable lengths as requested.

### Dimensions



all data in mm



# INDUCTIVE SENSORS MICRO SQUARE

## MICRO SQUARE Q8

### General data

Mounting	non shielded
Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 1,0V$
Max. load current	100mA
Off-state current $I_0$	$\leq 10mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	500Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 0,04$ mm
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate

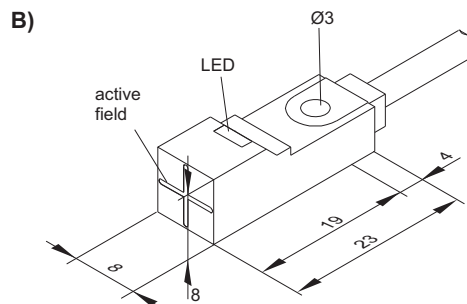
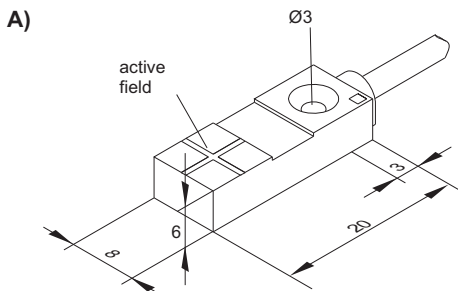


### Selection chart

Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing
08313881512	SJ1,5-Q8KN20-DPS	PNP	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313881522	SJ1,5-Q8KN20-DPÖ	PNP	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313881532	SJ1,5-Q8KN20-DNS	NPN	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313881542	SJ1,5-Q8KN20-DNÖ	NPN	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313881519	SJ1,5W-Q8KN23-DPS	PNP	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313881529	SJ1,5W-Q8KN23-DPÖ	PNP	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313881539	SJ1,5W-Q8KN23-DNS	NPN	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313881549	SJ1,5W-Q8KN23-DNÖ	NPN	1,5	2m cable PVC 3 x 0,15mm <sup>2</sup>	B

Other cable lengths as requested.

### Dimensions



all data in mm



## MICRO SQUARE Q10/Q12

### General data

Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_b$	$\leq 10\%$
Voltage drop $U_d$	$\leq 1,0V$
Max. load current	100mA
Off-state current $I_0$	$\leq 10mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	250Hz (version Q12: 500Hz)
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 0,04mm$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate

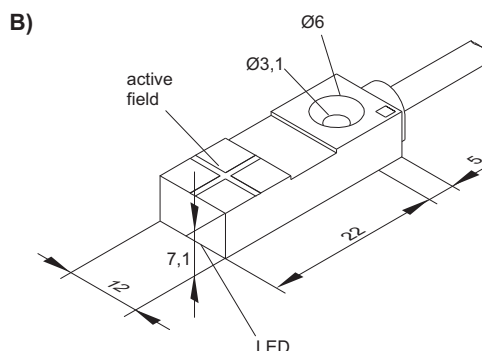
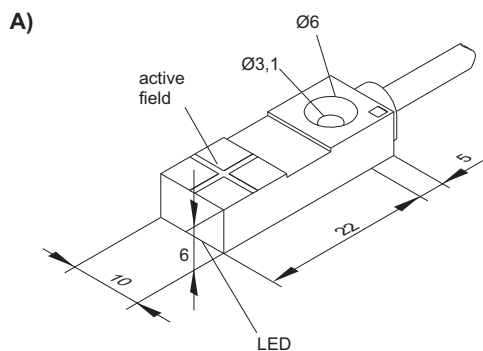


### Selection chart

Article number	Designation	Mounting	Output signal	Switching distance in mm	Connection	Drawing
08313021010	SJ2-Q10KN27-DPS	non shielded	PNP	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
0831xxxxxxx	SJ2-Q10KN27-DPÖ	non shielded	PNP	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
0831xxxxxxx	SJ2-Q10KN27-DNS	non shielded	NPN	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
0831xxxxxxx	SJ2-Q10KN27-DNÖ	non shielded	NPN	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
0831xxxxxxx	SJ2-Q12KN27-DPS	non shielded	PNP	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
0831xxxxxxx	SJ2-Q12KN27-DPÖ	non shielded	PNP	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
0831xxxxxxx	SJ2-Q12KN27-DNS	non shielded	NPN	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
0831xxxxxxx	SJ2-Q12KN27-DNÖ	non shielded	NPN	2	2m cable PVC 3 x 0,15mm <sup>2</sup>	B

Other cable lengths as requested.

### Dimensions



all data in mm

<b>p-u-l-s-o-t-r-o-n-i-c</b> Pulsotronic GmbH & Co. KG	Neue Schichtstraße 14b D-09366 Niederdorf	© +49 (0) 37296 / 930 - 200 +49 (0) 37296 / 930 - 280	info@pulsotronic.de www.pulsotronic.de	subject to modifications!
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## INDUCTIVE SENSORS MICRO SQUARE

### MICRO SQUARE Q15

#### General data

Mounting	non shielded
Operating voltage $U_b$	10 ... 30V DC
Ripple voltage $U_r$	$\leq 10\%$
Voltage drop $U_d$	$\leq 1,0V$
Max. load current	100mA
Off-state current $I_o$	$\leq 10mA$
Residual current $I_r$	$\leq 10\mu A$
Max. switching frequency $f$	250Hz
Hysteresis $H$	$\leq 15\%$
Repeatability $R$	$\leq 0,04 \text{ mm}$
Operating temperature $T_a$	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to IEC 60947-5-2
Switching state	LED
Housing material	polycarbonate



#### Selection chart

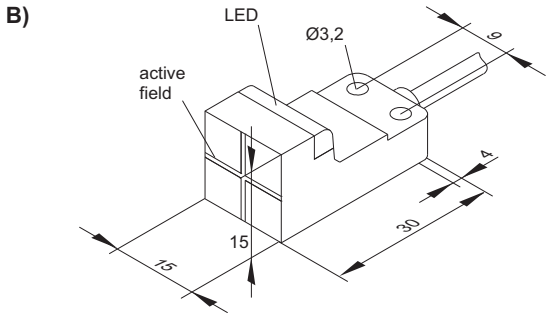
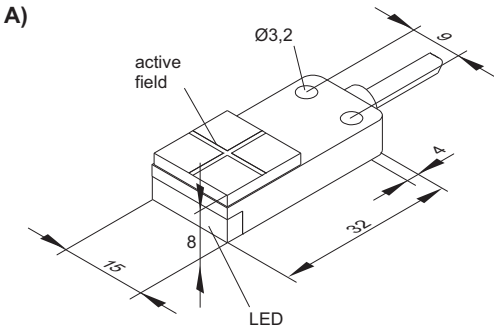
Article number	Designation	Output signal	Switching distance in mm	Connection	Drawing (next page)
08313150410	KJ4-Q15KN32-DPS	PNP	4	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08313150420	KJ4-Q15KN32-DPÖ	PNP	4	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08313150430	SJ4-Q15KN32-DNS	NPN	4	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313150440	SJ4-Q15KN32-DNÖ	NPN	4	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313150419	SJ4W-Q15KN30-DPS	PNP	4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313150429	SJ4W-Q15KN30-DPÖ	PNP	4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313150439	KJ4W-Q15KN30-DNS	NPN	4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313150449	SJ4W-Q15KN30-DNÖ	NPN	4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313156410	KJ6,4-Q15KN32-DPS	PNP	6,4	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08313156420	SJ6,4-Q15KN32-DPÖ	PNP	6,4	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313156430	KJ6,4-Q15KN32-DNS	NPN	6,4	2m cable PVC 3 x 0,14mm <sup>2</sup>	A
08313156440	SJ6,4-Q15KN32-DNÖ	NPN	6,4	2m cable PVC 3 x 0,15mm <sup>2</sup>	A
08313156419	SJ6,4W-Q15KN30-DPS	PNP	6,4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313156429	SJ6,4W-Q15KN30-DPÖ	PNP	6,4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313156439	SJ6,4W-Q15KN30-DNS	NPN	6,4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B
08313156449	SJ6,4W-Q15KN30-DNÖ	NPN	6,4	2m cable PVC 3 x 0,15mm <sup>2</sup>	B



# INDUCTIVE SENSORS MICRO SQUARE

## MICRO SQUARE Q15

### Dimensions



all data in mm



# INDUCTIVE SENSORS MICRO SQUARE

## PRODUCT OVERVIEW

Product group	Designation	Article number	Matchcode	Page
Inductive Square, Micro Square	KJ1-Q5MB26-DPS	08313550110		5
Inductive Square, Micro Square	KJ1-Q5MB26-DPÖ	08313550120		5
Inductive Square, Micro Square	KJ1-Q5MB26-DNS	08313550130		5
Inductive Square, Micro Square	KJ1-Q5MB26-DNÖ	08313550140		5
Inductive Square, Micro Square	KJ1-Q5MB26-DPS-X0429	08313550160		5
Inductive Square, Micro Square	SJ1,2-Q6KN19-DPS	08313661210		18
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DPS	08313661219		18
Inductive Square, Micro Square	SJ1,2-Q6KN19-DPÖ	08313661220		18
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DPÖ	08313661229		18
Inductive Square, Micro Square	SJ1,2-Q6KN19-DNS	08313661230		18
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DNS	08313661239		18
Inductive Square, Micro Square	SJ1,2-Q6KN19-DNÖ	08313661240		18
Inductive Square, Micro Square	SJ1,2W-Q6KN19-DNÖ	08313661249		18
Inductive Square, Micro Square	KJ1,5-Q8MB40-DPS	08317611000		6
Inductive Square, Micro Square	KJ1,5-Q8MB40-DPS-AM	08317611100		6
Inductive Square, Micro Square	SJ1,5-Q8KN20-DPS	08313881512		19
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DPS	08313881519		19
Inductive Square, Micro Square	SJ1,5-Q8KN20-DPÖ	08313881522		19
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DPÖ	08313881529		19
Inductive Square, Micro Square	SJ1,5-Q8KN20-DNS	08313881532		19
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DNS	08313881539		19
Inductive Square, Micro Square	SJ1,5-Q8KN20-DNÖ	08313881542		19
Inductive Square, Micro Square	SJ1,5W-Q8KN23-DNÖ	08313881549		19
Inductive Square, Micro Square	KJ1,5-Q8MB60-DPS-V1	08317611064		6
Inductive Square, Micro Square	KJ1,5-Q8MB60-DPS-V1-AM	08317611164		6
Inductive Square, Micro Square	KJ2-Q8AB-DPS	08310000475		6
Inductive Square, Micro Square	KJ2-Q8AB-DPS-AM-X0409	08310000440		6
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ	08310020475		6
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ-AM	08310000074		6
Inductive Square, Micro Square	KJ2-Q8AB-DPS-V1	08310000509		6
Inductive Square, Micro Square	KJ2-Q8AB-DPS-V1-AM	08310000369		6
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ-V1	0831xxxxxxx		6
Inductive Square, Micro Square	KJ2-Q8AB-DPÖ-V1-AM	0831xxxxxxx		6
Inductive Square, Micro Square	KJ2-Q8AB-DPS-V3	08310001035		6
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Inductive Square, Micro Square	SJ2-Q10KN27-DPS	08313021010		20
Inductive Square, Micro Square	SJ2-Q10KN27-DPÖ	0831xxxxxxx		20
Inductive Square, Micro Square	SJ2-Q10KN27-DNS	0831xxxxxxx		20
Inductive Square, Micro Square	SJ2-Q10KN27-DNÖ	0831xxxxxxx		20
Inductive Square, Micro Square	KJ2-Q12KB-DPS	08317613000		9
Inductive Square, Micro Square	SJ2-Q12KN27-DPS	0831xxxxxxx		20
Inductive Square, Micro Square	KJ2-Q12KB-DPÖ	08317613400		99
Inductive Square, Micro Square	SJ2-Q12KN27-DPÖ	0831xxxxxxx		20
Inductive Square, Micro Square	SJ2-Q12KN27-DNS	0831xxxxxxx		20
Inductive Square, Micro Square	SJ2-Q12KN27-DNÖ	0831xxxxxxx		20
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Inductive Square, Micro Square	SJ6,4-Q15KN32-DPÖ	08313156420		21
Inductive Square, Micro Square	SJ6,4W-Q15KN30-DPÖ	08313156429		21
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Inductive Square, Micro Square	SJ6,4W-Q15KN30-DNS	08313156439		21
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