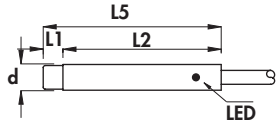
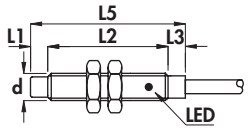
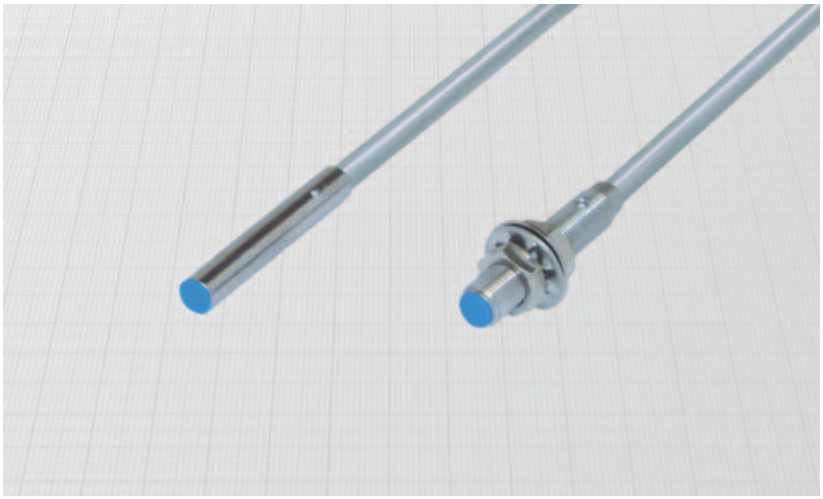
Diameters 4 - 5 mm •
Amplified in d.c. 3 wires •
Cable output •

Housing A-3



Housing B-6





Diameter		M5 x 0,5
Nut	Size	SW7
	Thickness mm	2,5
Max tightening torque Nm		2

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: stainless steel
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,15 mm²
- Protected against short-circuit and overload (versions with letter K)
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC
		mm	mm	mm	mm	mm	mm	KHz	mA	mm		
A - 3	•	-	25	-	25	3	4	5	200	0,8	**DCA4/4609LS**	**DCA4/4619LS**
A - 3	•	3	22	-	25	3	4	5	200	1,4	**DCA4/5609LS**	**DCA4/5619LS**
A - 3	•	-	30	-	30	3	4	5	200	1	**DCA4/4B09LKS**	**DCA4/4B19LKS**
A - 3	•	3	27	-	30	3	4	5	200	1,4	**DCA4/5B09LKS**	**DCA4/5B19LKS**
B - 6	•	-	20	5	25	3	M5 x 0,5	5	200	0,8	**DCA5/4609S**	**DCA5/4619S**
B - 6	•	3	17	5	25	3	M5 x 0,5	5	200	1,4	**DCA5/5609S**	**DCA5/5619S**
B - 6	•	-	25	5	30	3	M5 x 0,5	5	200	1	**DCA5/4B09KS**	**DCA5/4B19KS**
B - 6	•	3	22	5	30	3	M5 x 0,5	5	200	1,4	**DCA5/5B09KS**	**DCA5/5B19KS**

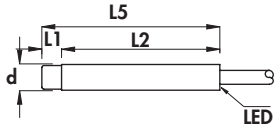
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA4/4608LS)

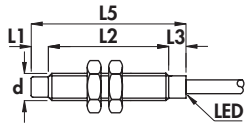
NO / NC

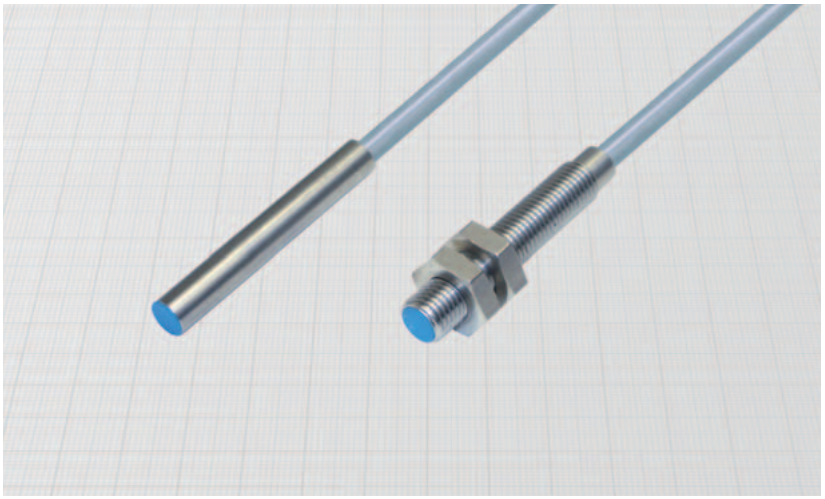
- **Diameters 6,5 - 8 mm**
- **Amplified in d.c. 3 and 4 wires**
- Cable output

Housing A-3



Housing B-6





Diameter		M8 x 1
Nut	Size	SW13
	Thickness mm	4
Max tightening torque Nm		10

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: stainless steel
- Sensing face: plastic

Technical data:

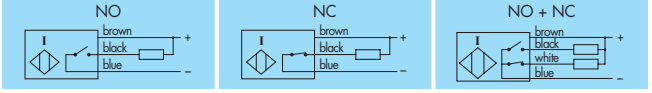
- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,15 mm² on 4 wires versions
  0,22 mm² on 3 wires versions

- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	No-load supply current (I_o)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	mm	mm	KHz	mA	mm			
A - 3	•	-	45	-	45	3,5	6,5	4	200	1,5	**DCA6,5/4609LKS**	**DCA6,5/4619LKS**	**DCA6,5/4629LKS**
A - 3	•	5	40	-	45	3,5	6,5	3	200	2,5	**DCA6,5/5609LKS**	**DCA6,5/5619LKS**	**DCA6,5/5629LKS**
A - 3	•	-	45	-	45	3,5	8	4	200	1,5	**DCA8/4609LKS**	**DCA8/4619LKS**	**DCA8/4629LKS**
B - 6	•	-	40	5	45	3,5	M8 x 1	4	200	1,5	**DCA8/4609KS**	**DCA8/4619KS**	**DCA8/4629KS**
A - 3	•	5	40	-	45	3,5	8	3	200	2,5	**DCA8/5609LKS**	**DCA8/5619LKS**	**DCA8/5629LKS**
B - 6	•	5	35	5	45	3,5	M8 x 1	3	200	2,5	**DCA8/5609KS**	**DCA8/5619KS**	**DCA8/5629KS**

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA6,5/4608LKS)



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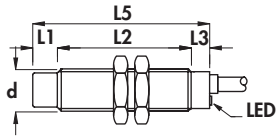
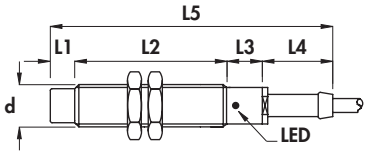
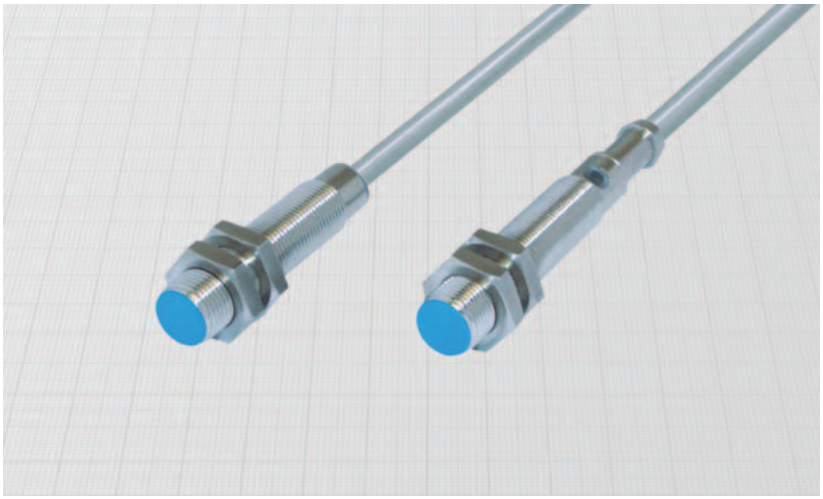
Diameters 12 mm •
Amplified in d.c. 3 and 4 wires •
Cable output •

Housing B-3



Housing D





Diameter		M12 x 1	M14 x 1	M16 x 1
Nut	Size	SW17	SW17	SW22
	Thickness mm	4	4	4
Max tightening torque Nm		15	20	25

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: nickel plated brass
- Sensing face: plastic

Technical data:

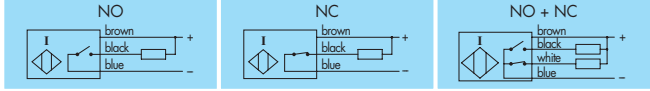
- Supply voltage (U_B): 5 ÷ 40 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,35 mm² on 3 wires
  0,25 mm² on 4 wires

- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
			mm	mm	mm	mm	mm	mm	mm	KHz	mA	mm			
B - 3	•		-	43	7	-	50	4	M12 x 1	2	200	2	**DCA12/4609KS**	**DCA12/4619KS**	**DCA12/4629KS**
D	•		-	50	10	20	80	4	M12 x 1	2	200	2	**DCA12/4709KS**	**DCA12/4719KS**	**DCA12/4729KS**
B - 3		•	7	36	7	-	50	4	M12 x 1	1,5	200	4	**DCA12/5609KS**	**DCA12/5619KS**	**DCA12/5629KS**
D		•	7	43	10	20	80	4	M12 x 1	1,5	200	4	**DCA12/5709KS**	**DCA12/5719KS**	**DCA12/5729KS**

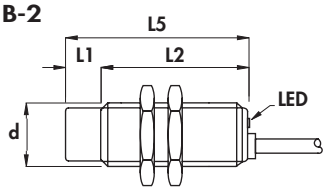
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie DCA12/4608KS)

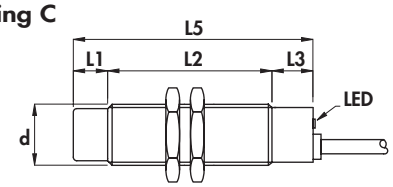


- **Diameters 18 mm**
- **Amplified in d.c. 3 and 4 wires**
- Cable output

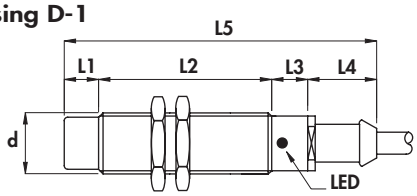
Housing B-2

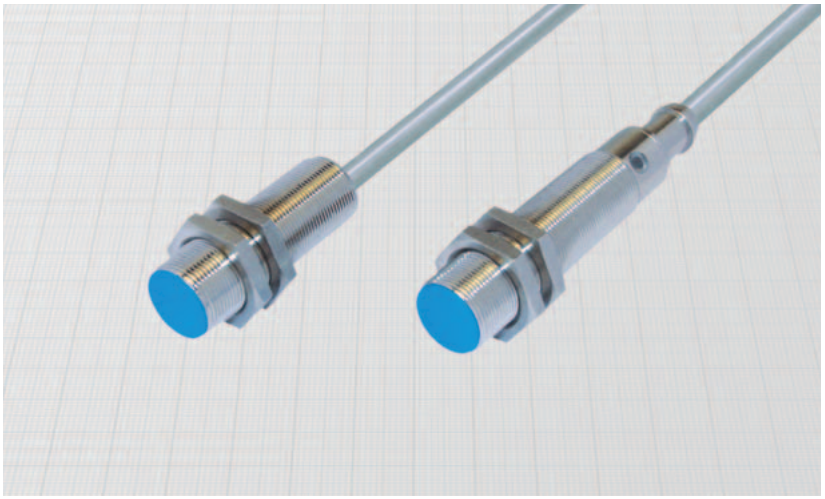


Housing C



Housing D-1





Diameter		M18 x 1
Nut	Size	SW24
	Thickness mm	4
Max tightening torque Nm		35

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: nickel plated brass
- Sensing face: plastic

Technical data:

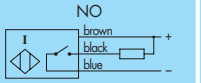
- Supply voltage (U_B): 5 ÷ 60 V
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	No-load supply current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	mm	mm	mm	KHz	mA	mm			
B - 2	•	-	50	-	-	50	5	M18 x 1	1	400	5	**DCA18/4A09KS**	**DCA18/4A19KS**	**DCA18/4A29KS**
B - 2	•	10	40	-	-	50	5	M18 x 1	1	400	8	**DCA18/5A09KS**	**DCA18/5A19KS**	**DCA18/5A29KS**
C	•	-	58	12	-	70	5	M18 x 1	1	400	5	**DCA18/4609KS**	**DCA18/4619KS**	**DCA18/4629KS**
D - 1	•	-	60	12	20	92	6	M18 x 1	1	400	5	**DCA18/4709KS**	**DCA18/4719KS**	**DCA18/4729KS**
C	•	10	48	12	-	70	5	M18 x 1	1	400	8	**DCA18/5609KS**	**DCA18/5619KS**	**DCA18/5629KS**
D - 1	•	10	50	12	20	92	6	M18 x 1	1	400	8	**DCA18/5709KS**	**DCA18/5719KS**	**DCA18/5729KS**

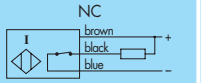
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie DCA18/4A08KS)

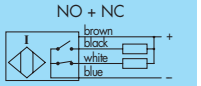
NO



NC



NO + NC



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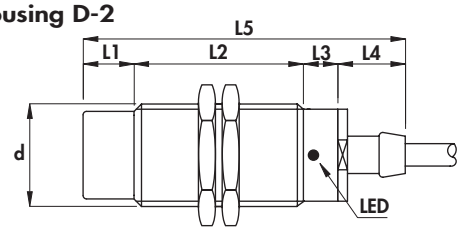
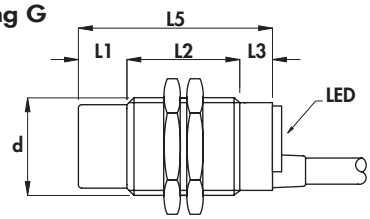
Diameters 30 - 45 mm •
Amplified in d.c. 3 and 4 wires •
Cable output •

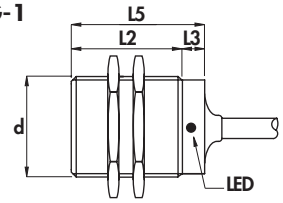
Housing D-2

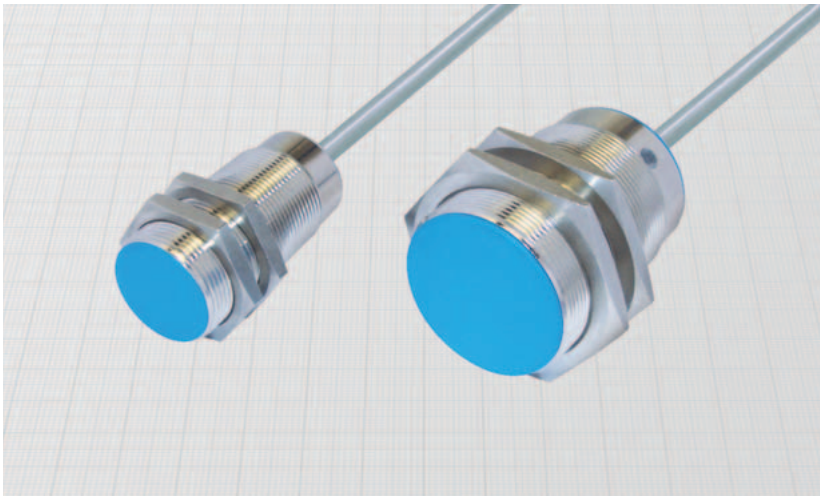


Housing G



Housing G-1





Diameter		M30 x 1,5	M45 x 1,5
Nut	Size	SW36	SW55
	Thickness mm	5	5
Max tightening torque Nm		80	70

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: nickel plated brass
- Sensing face: plastic

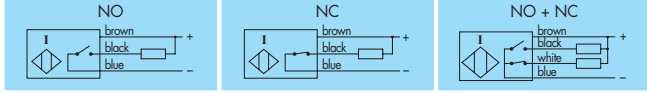
Technical data:

- Supply voltage (U_B): 7 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	No-load supply current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
			mm	mm	mm	mm	mm	mm	mm	KHz	mA	mm			
G	•		-	50	10	-	60	6	M30 x 1,5	0,8	400	10	**DCA30/4609KS**	**DCA30/4619KS**	**DCA30/4629KS**
D - 2	•		-	65	10	20	95	6	M30 x 1,5	0,8	400	10	**DCA30/4709KS**	**DCA30/4719KS**	**DCA30/4729KS**
G		•	15	35	10	-	60	6	M30 x 1,5	0,4	400	15	**DCA30/5609KS**	**DCA30/5619KS**	**DCA30/5629KS**
D - 2		•	15	50	10	20	95	6	M30 x 1,5	0,4	400	15	**DCA30/5709KS**	**DCA30/5719KS**	**DCA30/5729KS**
G-1	•		-	50	10		60	6	M45 x 1,5	0,15	400	20	**DCA45/4609KS**	**DCA45/4619KS**	**DCA45/4629KS**

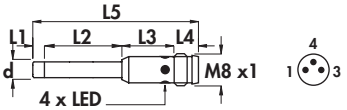
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie DCA30/4608KS)

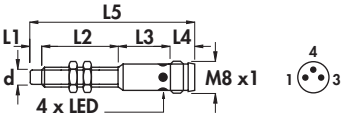


- **Diameters 4 - 5 - 6,5 - 8 mm**
- **Amplified in c.c.**
- Connector output M8 x 1

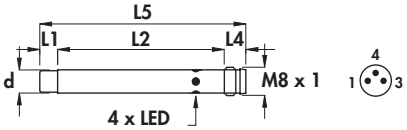
Housing I-3



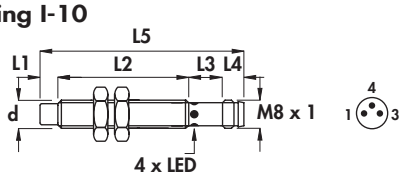
Housing I-4



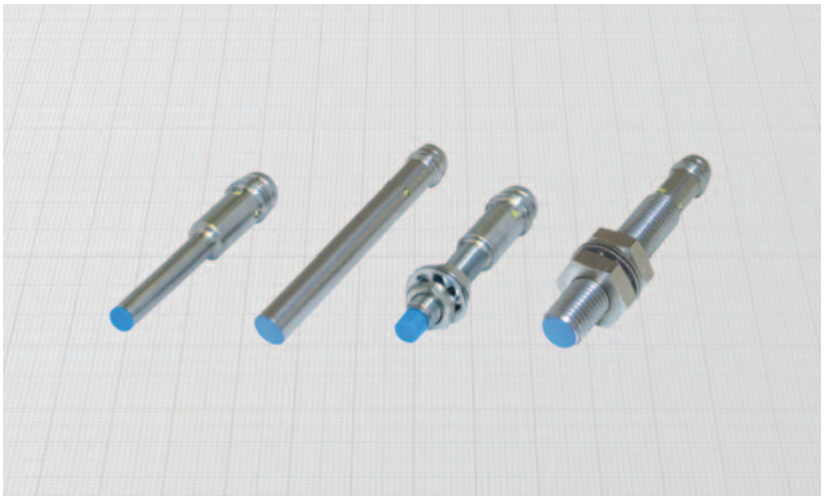
Housing I-5



Housing I-10



Diameter		M5x 0,5	M8 x 1
Nut	Size	SW7	SW13
	Thickness mm	2,5	4
Max tightening torque Nm		2	10



Materials:

- Housing: stainless steel
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
			mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm		
I-3	•		-	22	12	5,5	39,5	11-12	4	5	200	1	**DCA4/4909LKS**	**DCA4/4919LKS**
I-3		•	3	19	12	5,5	39,5	11-12	4	5	200	1,4	**DCA4/5909LKS**	**DCA4/5919LKS**
I-4	•		-	22	12	5,5	39,5	11-12	M5 x 0,5	5	200	1	**DCA5/4909KS**	**DCA5/4919KS**
I-4		•	3	19	12	5,5	39,5	11-12	M5 x 0,5	5	200	1,4	**DCA5/5909KS**	**DCA5/5919KS**
I-5	•		-	48,5	-	5,5	54	11-12	6,5	4	200	1,5	**DCA6,5/4909LKS**	**DCA6,5/4919LKS**
I-5		•	5	43,5	-	5,5	54	11-12	6,5	3	200	2,5	**DCA6,5/5909LKS**	**DCA6,5/5919LKS**
I-10	•		-	40	8,5	5,5	54	11-12	M8 x 1	4	200	1,5	**DCA8/4909KS**	**DCA8/4919KS**
I-10		•	5	35	8,5	5,5	54	11-12	M8 x 1	3	200	2,5	**DCA8/5909KS**	**DCA8/5919KS**

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA4/4908LKS)

NO / NC

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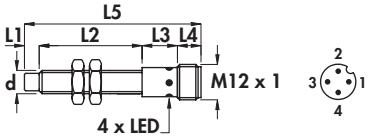
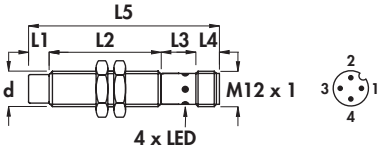
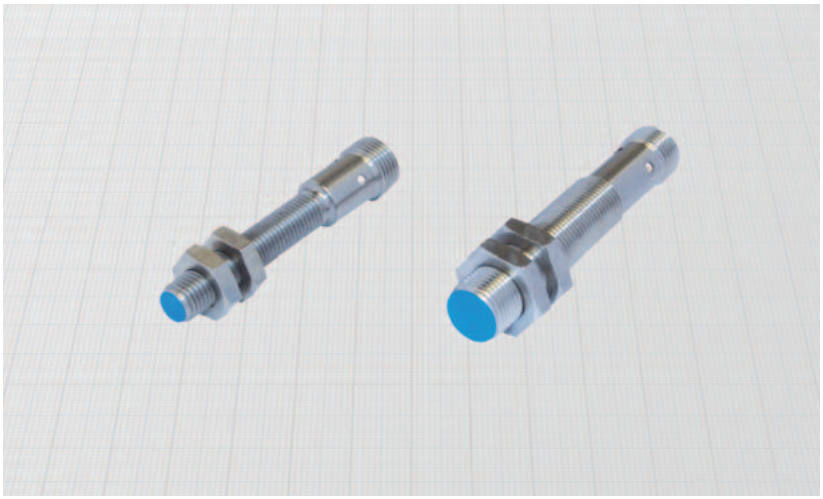
Diameters 8 - 12 mm •
Amplified in d.c. •
Connector output M12 x 1 •

Housing I-11



Housing I-7





Diameter		M8 x 1	M12 x 1
Nut	Size	SW13	SW17
	Thickness mm	4	4
Max tightening torque Nm		10	15

Materials:

- Housing diametro 8 mm: stainless steel
- Housing diametro 12 mm nickel plated brass
- Sensing face: plastic

Technical data:

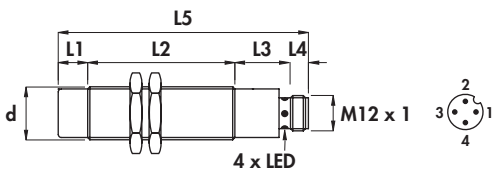
- Supply voltage (U_B): diameter 8 mm 7 ÷ 30 Vdc; diameter 12 mm 5 ÷ 40 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm			
I-11	•	-	40	12	8	60	6 - 8B -10	M8 x 1	4	200	1,5	**DCA8/4309KS**	**DCA8/43C9KS**	**DCA8/4329KS**
I-11	•	5	35	12	8	60	6 - 8B -10	M8 x 1	3	200	2,5	**DCA8/5309KS**	**DCA8/53C9KS**	**DCA8/5329KS**
I-7	•	-	43	15	8	66	6 - 8B -10	M12 x 1	2	200	2	**DCA12/4309KS**	**DCA12/43C9KS**	**DCA12/4329KS**
I-7	•	7	36	15	8	66	6 - 8B -10	M12 x 1	1,5	200	4	**DCA12/5309KS**	**DCA12/53C9KS**	**DCA12/5329KS**

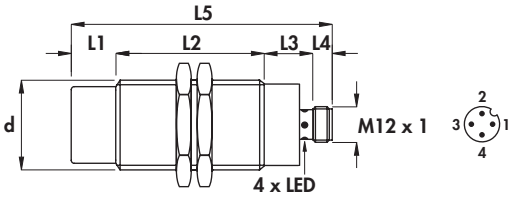
NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie DCA8/4308KS)

- **Diameters 18 - 30 - 45 mm**
- **Amplified in d.c.**
- Connector output M12 x 1

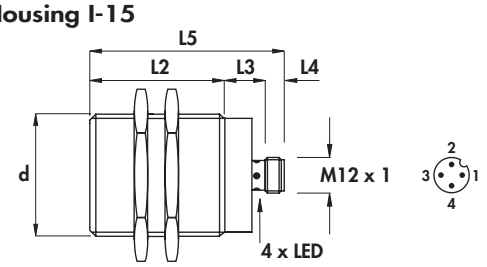
Housing I-12

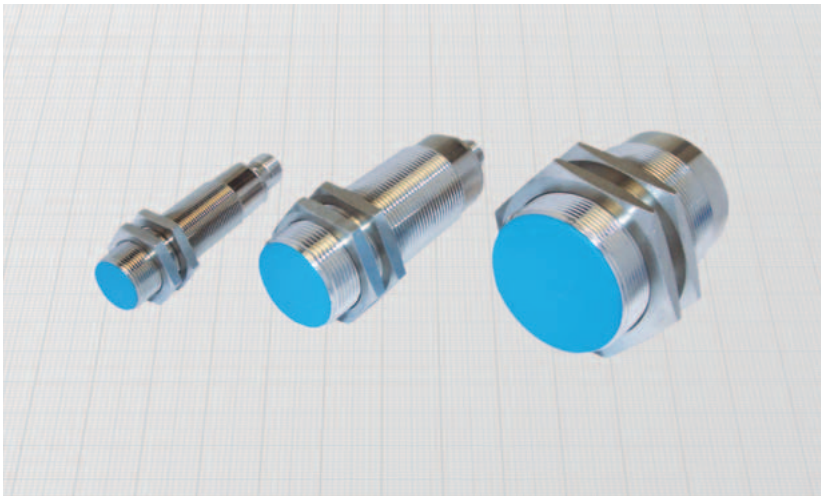


Housing I-2



Housing I-15





Diameter		M18 x 1	M30 x 1,5	M45 x 1,5
Nut	Size	SW24	SW36	SW55
	Thickness mm	4	5	5
Max tightening torque Nm		35	80	70

Materials:

- Housing: nickel plated brass
- Sensing face: plastic

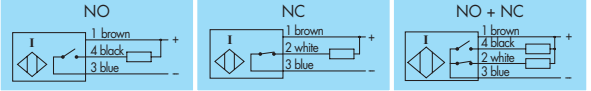
Technical data:

- Supply voltage (U_B): diameter 18 mm 5 ÷ 60 Vdc; diameters 30 and 45 mm 7 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
			mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm			
I-12	•		-	50	19	8	77	6-8B-10	M18 x 1	1	400	5	**DCA18/4309KS**	**DCA18/43C9KS**	**DCA18/4329KS**
I-12		•	10	50	19	8	87	6-8B-10	M18 x 1	1	400	8	**DCA18/5309KS**	**DCA18/53C9KS**	**DCA18/5329KS**
I-2	•		-	65	17	8	90	6-8B-10	M30 x 1,5	0,8	400	10	**DCA30/4309KS**	**DCA30/43C9KS**	**DCA30/4329KS**
I-2		•	15	50	17	8	90	6-8B-10	M30 x 1,5	0,4	400	15	**DCA30/5309KS**	**DCA30/53C9KS**	**DCA30/5329KS**
I-15	•		-	50	19	8	77	6-8B-10	M45 x 1,5	0,15	400	20	**DCA45/4309KS**	**DCA45/43C9KS**	**DCA45/4329KS**

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie DCA18/4308KS)



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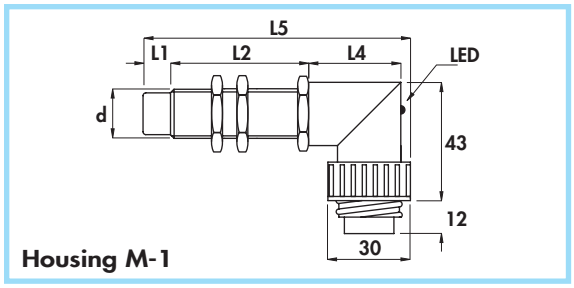
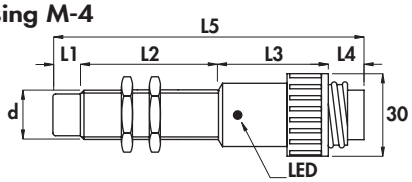
Diameter 18 mm •
Amplified in d.c. •
Connector output C1 - C2 •

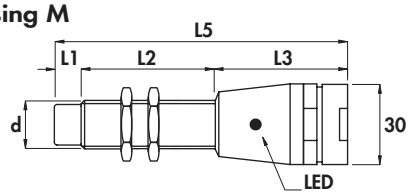


Housing M-1

Housing M-4

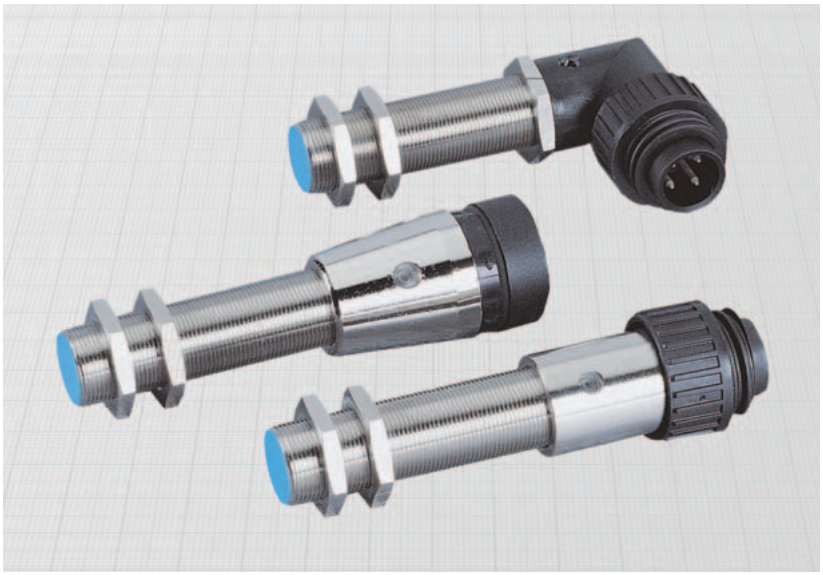


Housing M



Diameter		M18 x 1
Nut	Size	SW24
	Thickness mm	4
Max tightening torque Nm		35

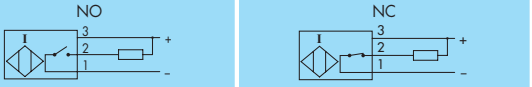
Materials:
- Housing: nickel plated brass
- Sensing face and socket connerctor: plastic



Technical data:
- Supply voltage (U_B): 5 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP65
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

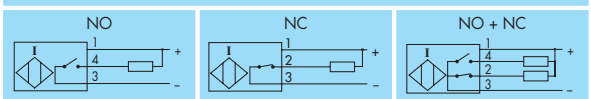
Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm		
M - 1	•	-	60	-	33	96	1	M18 x 1	1	400	5	**DCA18/4209KS**	**DCA18/4219KS**
M - 4	•	-	60	40	13	113	1	M18 x 1	1	400	5	**DCA18/4409KS**	**DCA18/4419KS**
M - 1	•	10	50	-	33	96	1	M18 x 1	1	400	8	**DCA18/5209KS**	**DCA18/5219KS**
M - 4	•	10	50	40	13	113	1	M18 x 1	1	400	8	**DCA18/5409KS**	**DCA18/5419KS**

NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie DCA18/4208KS)

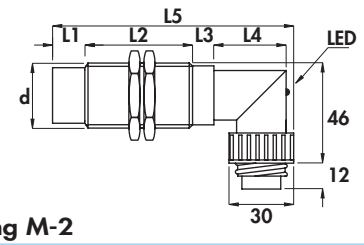


		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm	PNP (positive switching) NO	NC	NO + NC
M	•	-	60	50	-	110	2	M18 x 1	1	400	5	**DCA18/4E09KS**	**DCA18/4E19KS**	**DCA18/4E29KS**
M	•	10	50	50	-	110	2	M18 x 1	1	400	8	**DCA18/5E09KS**	**DCA18/5E19KS**	**DCA18/5E29KS**

NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie DCA18/4E08KS)

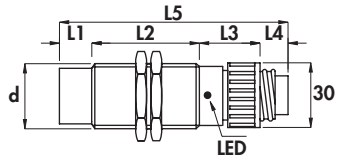


- **Diameter 30 mm**
- **Amplified in d.c.**
- Connector output C1 - C2

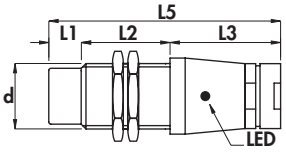


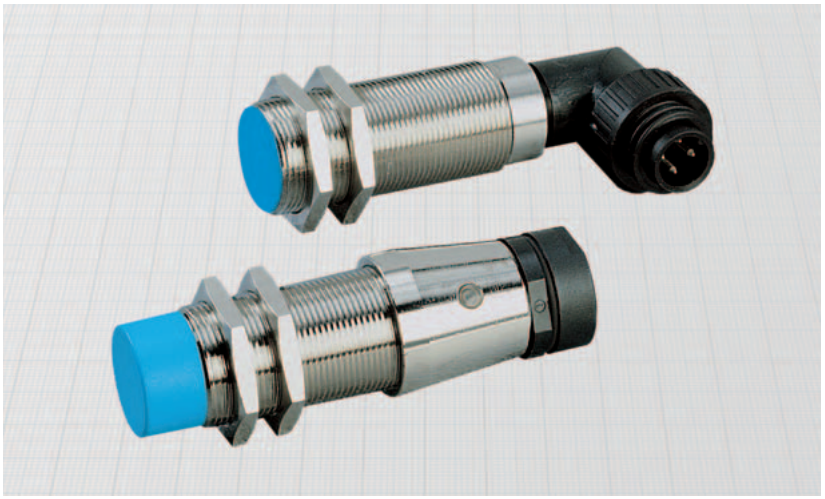
Housing M-2

Housing M-5



Housing M-6





Diameter		M30 x 1,5
Nut	Size	SW36
	Thickness mm	5
Max tightening torque Nm		80

Materials:
- Housing: nickel plated brass
- Sensing face and socket connerctor: plastic

Technical data:
- Supply voltage (U_B): 7 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP65
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	No-load supply current (I_e)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm		
M-2	•	-	65	10	40	115	1	M30 x 1,5	0,8	400	10	**DCA30/4209KS**	**DCA30/4219KS**
M-5	•	-	65	28	13	106	1	M30 x 1,5	0,8	400	10	**DCA30/4409KS**	**DCA30/4419KS**
M-2	•	15	50	10	40	115	1	M30 x 1,5	0,4	400	15	**DCA30/5209KS**	**DCA30/5219KS**
M-5	•	15	50	28	13	106	1	M30 x 1,5	0,4	400	15	**DCA30/5409KS**	**DCA30/5419KS**

NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie DCA30/4208KS)

NO NC

		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm	PNP (positive switching) NO	PNP (positive switching) NC	PNP (positive switching) NO + NC
M-6	•	-	56	51	-	107	2	M30 x 1,5	0,8	400	10	**DCA30/4E09KS**	**DCA30/4E19KS**	**DCA30/4E29KS**
M-6	•	15	41	51	-	107	2	M30 x 1,5	0,4	400	15	**DCA30/5E09KS**	**DCA30/5E19KS**	**DCA30/5E29KS**

NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie. DCA30/4E08KS)

NO NC NO + NC

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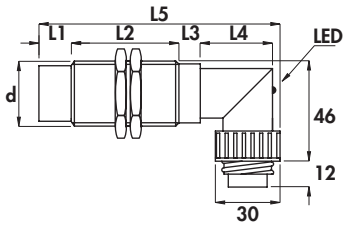
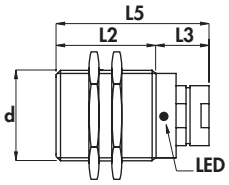
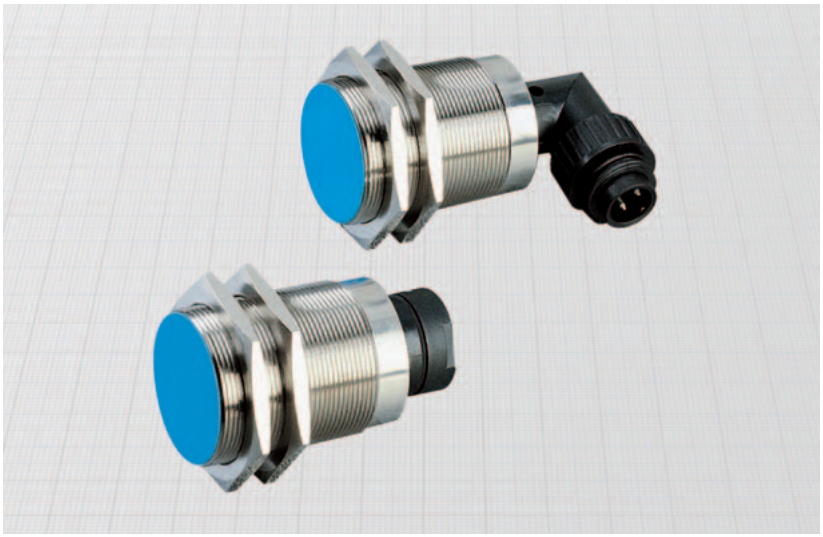
Diameter 45 mm •
Amplified in d.c. •
Connector output C1 - C2 •



Housing M-2

Housing M-3





Diameter		M45 x 1,5
Nut	Size	SW55
	Thickness mm	5
Max tightening torque Nm		70

Materials:
- Housing: nickel plated brass
- Sensing face and socket connerctor: plastic

Technical data:
- Supply voltage (U_B): 7 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP65
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm		
M - 2	•	-	50	10	42	102	1	M45 x 1,5	0,15	400	20	**DCA45/4209KS**	**DCA45/4219KS**

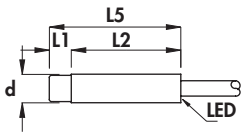
NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie DCA45/4208KS)

												PNP (positive switching) NO	PNP (positive switching) NC	PNP (positive switching) NO + NC
		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm			
M - 3	•	-	50	28	-	78	2	M45 x 1,5	0,15	400	20	**DCA45/4E09KS**	**DCA45/4E19KS**	**DCA45/4E29KS**

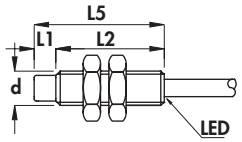
NPN (negative switching)
Use the above mentioned part number changing the last number 9 with 8 (ie DCA45/4E08KS)

- **SHORT SERIES**
- **Amplified in d.c. 3 wires**
- Cable output

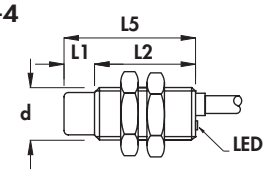
Housing A



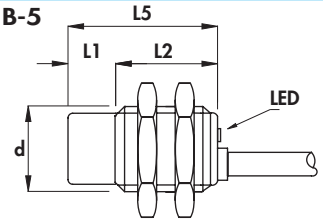
Housing B

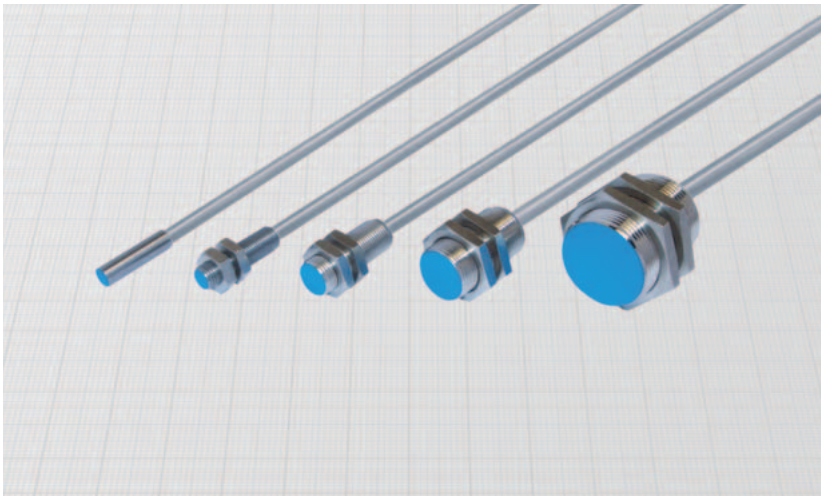


Housing B-4



Housing B-5





Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing 6,5 and 8 mm: stainless steel
- Housing 12 ÷ 30 mm: nickel plated brass
- Sensing face: plastic

Technical data:

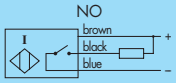
- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,22 mm² on 6,5 and 8 mm
  0,35 mm² on 12 mm
  0,50 mm² on 18 and 30 mm
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	No-load supply current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	mm	mm	V (min - max)	KHz	mA	mm		
A	•	-	30	-	-	30	3,5	6,5	7 ÷ 30	4	200	1,5	**DSA6,5/4609LKS**	**DSA6,5/4619LKS**
A	•	5	25	-	-	30	3,5	6,5	7 ÷ 30	3	200	2,5	**DSA6,5/5609LKS**	**DSA6,5/5619LKS**
B	•	-	30	-	-	30	3,5	M8 x 1	7 ÷ 30	4	200	1,5	**DSA8/4609KS**	**DSA8/4619KS**
B	•	5	25	-	-	30	3,5	M8 x 1	7 ÷ 30	3	200	2,5	**DSA8/5609KS**	**DSA8/5619KS**
B - 4	•	-	30	-	-	30	4	M12 x 1	7 ÷ 40	2	200	2	**DSA12/4609KS**	**DSA12/4619KS**
B - 4	•	7	23	-	-	30	4	M12 x 1	7 ÷ 40	1,5	200	4	**DSA12/5609KS**	**DSA12/5619KS**
B - 5	•	-	30	-	-	30	5	M18 x 1	5 ÷ 40	0,8	200	5	**DSA18/4609KS**	**DSA18/4619KS**
B - 5	•	10	20	-	-	30	5	M18 x 1	5 ÷ 40	0,6	200	8	**DSA18/5609KS**	**DSA18/5619KS**
B - 5	•	-	35	-	-	35	6	M30 x 1,5	7 ÷ 40	0,8	200	10	**DSA30/4609KS**	**DSA30/4619KS**
B - 5	•	15	20	-	-	35	6	M30 x 1,5	7 ÷ 40	0,4	200	15	**DSA30/5609KS**	**DSA30/5619KS**

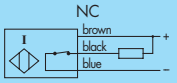
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DSA6,5/4608LKS)

NO



NC



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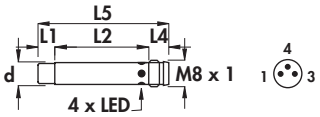
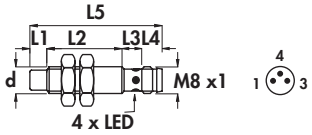
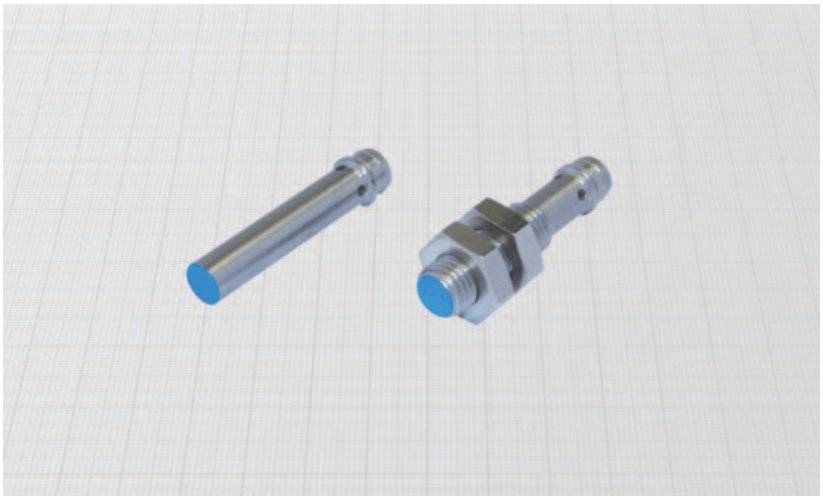
SHORT SERIES - diameters 6,5 - 8 mm •
Amplified in d.c. •
Connector output M8 x 1 •

Housing I-8



Housing I-6





Diameter		M8 x 1
Nut	Size	SW13
	Thickness mm	4
Max tightening torque Nm		10

Materials:

- Housing: stainless steel
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

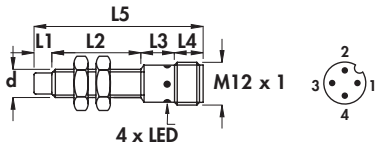
Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm		
I-8	•	-	29,5	-	5,5	35	11 - 12	6,5	4	200	1,5	**DSA6,5/4909LKS**	**DSA6,5/4919LKS**
I-8	•	5	24,5	-	5,5	35	11 - 12	6,5	3	200	2,5	**DSA6,5/5909LKS**	**DSA6,5/5919LKS**
I-6	•	-	21	8,5	5,5	35	11 - 12	M8 x 1	4	200	1,5	**DSA8/4909KS**	**DSA8/4919KS**
I-6	•	5	16	8,5	5,5	35	11 - 12	M8 x 1	3	200	2,5	**DSA8/5909KS**	**DSA8/5919KS**

NPN (negative switching)

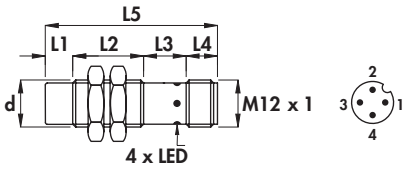
Use the above mentioned part number changing the last number 9 with 8 (ie. DCA45/4E08KS)

• SHORT SERIES - diameters 8 - 12 - 18 - 30 mm
• Amplified in d.c.
• Connector output M12 x 1

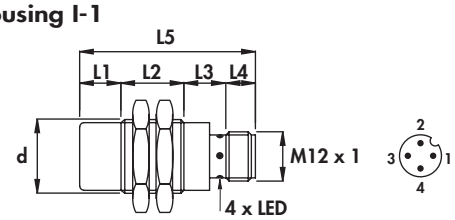
Housing I

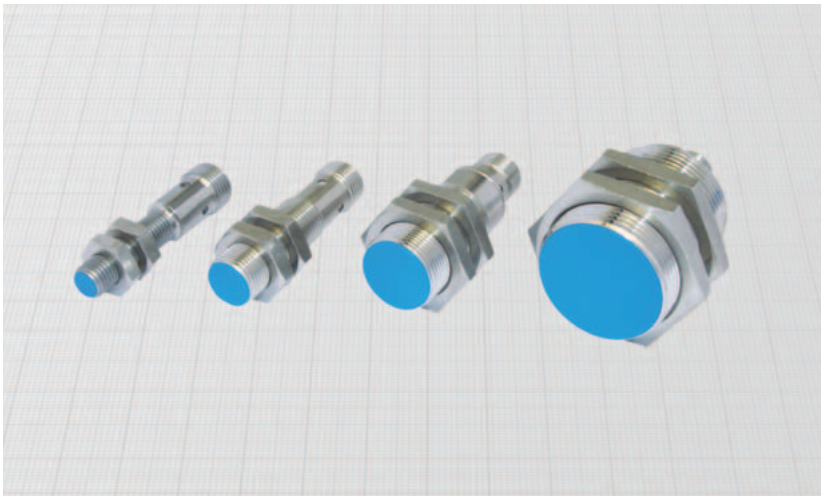


Housing I-9



Housing I-1





Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

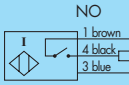
Materials:

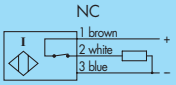
- Housing 8 mm: stainless steel
- Housing 12 ÷ 30 mm: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
			mm	mm	mm	mm	mm	n°	mm	V (min - max)	KHz	mA	mm		
I	•		-	26	13	8	47	6 - 8B -10	M8 x 1	7 ÷ 30	4	200	1,5	**DSA8/4309KS**	**DSA8/43C9KS**
I		•	5	21	13	8	47	6 - 8B -10	M8 x 1	7 ÷ 30	3	200	2,5	**DSA8/5309KS**	**DSA8/53C9KS**
I-9	•		-	30	10	8	48	6 - 8B -10	M12 x 1	7 ÷ 40	2	200	2	**DSA12/4309KS**	**DSA12/43C9KS**
I-9		•	7	23	10	8	48	6 - 8B -10	M12 x 1	7 ÷ 40	1	200	4	**DSA12/5309KS**	**DSA12/53C9KS**
I-1	•		-	25	16	8	49	6 - 8B -10	M18 x 1	5 ÷ 40	0,8	200	5	**DSA18/4309KS**	**DSA18/43C9KS**
I-1		•	10	15	16	8	49	6 - 8B -10	M18 x 1	5 ÷ 40	0,6	200	8	**DSA18/5309KS**	**DSA18/53C9KS**
I-1	•		-	25	17	8	50	6 - 8B -10	M30 x 1,5	7 ÷ 40	0,8	200	10	**DSA30/4309KS**	**DSA30/43C9KS**
I-1		•	15	25	17	8	65	6 - 8B -10	M30 x 1,5	7 ÷ 40	0,4	200	15	**DSA30/5309KS**	**DSA30/53C9KS**

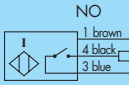




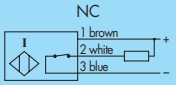
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DSA8/4308KS)

NO



NC



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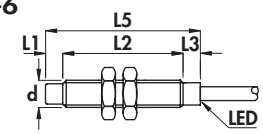
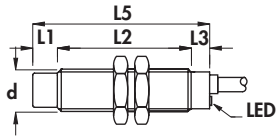
Extended sensing distance - diameters 8 - 12 mm •
Amplified in d.c. 3 wires •
Cable output •

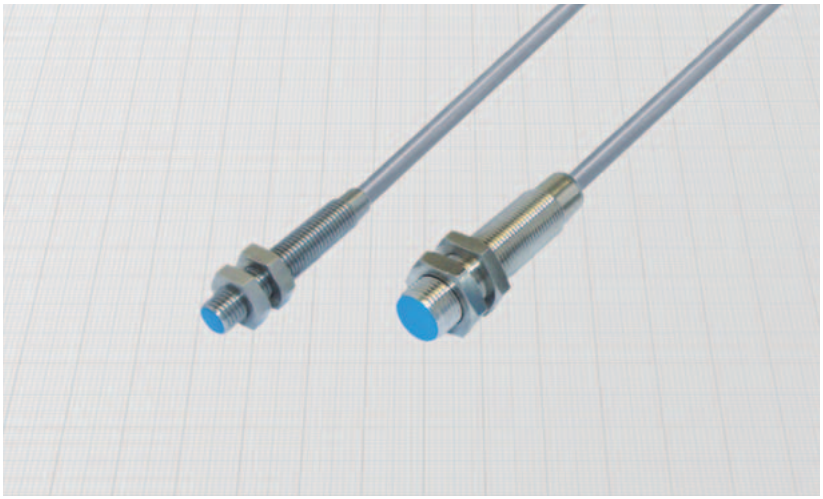
Housing B-6



Housing B-3



Diameter		M8 x 1	M12 x 1
Nut	Size	SW13	SW17
	Thkns mm	4	4
Max tightening torque Nm		10	15



Materials:

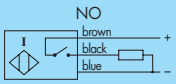
- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing 8 mm: stainless steel
- Housing 12 mm: nickel plated brass
- Sensing face: plastic

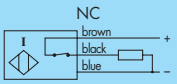
Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,22 mm² on 8 mm
  0,35 mm² on 12 mm

- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*) / Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	mm	mm	V (min - max)	Hz	mA	mm		
B - 6	•	-	40	5	-	45	3,5	M8 x 1	7÷30	800	200	2	**DCAE8/4609KS**	**DCAE8/4619KS**
B - 6	•	-	40	5	-	45	3,5	M8 x 1	7÷30	800	200	2,5	**DCE8/4609KS**	**DCE8/4619KS**
B - 6	•	5	35	5	-	45	3,5	M8 x 1	7÷30	400	200	3	**DCAE8/5609KS**	**DCAE8/5619KS**
B - 6	•	5	35	5	-	45	3,5	M8 x 1	7÷30	400	200	3,5	**DCE8/5609KS**	**DCE8/5619KS**
B - 3	•	-	43	7	-	50	4	M12 x 1	7÷40	800	200	3	**DCAE12/4609KS**	**DCAE12/4619KS**
B - 3	•	-	43	7	-	50	4	M12 x 1	7÷40	800	200	4	**DCE12/4609KS**	**DCE12/4619KS**
B - 3	•	7	36	7	-	50	4	M12 x 1	7÷40	600	200	5	**DCAE12/5609KS**	**DCAE12/5619KS**
B - 3	•	7	36	7	-	50	4	M12 x 1	7÷40	600	200	6	**DCE12/5609KS**	**DCE12/5619KS**

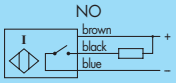


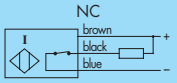


(*) Note: See mounting precautions (pag. 22)

NPN (negative switching)

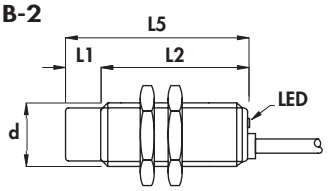
Use the above mentioned part number changing the last number 9 with 8 (ie. DCE8/4608KS)



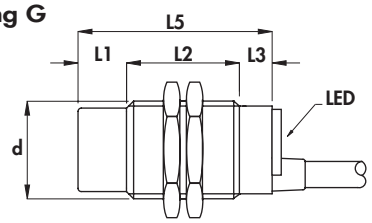


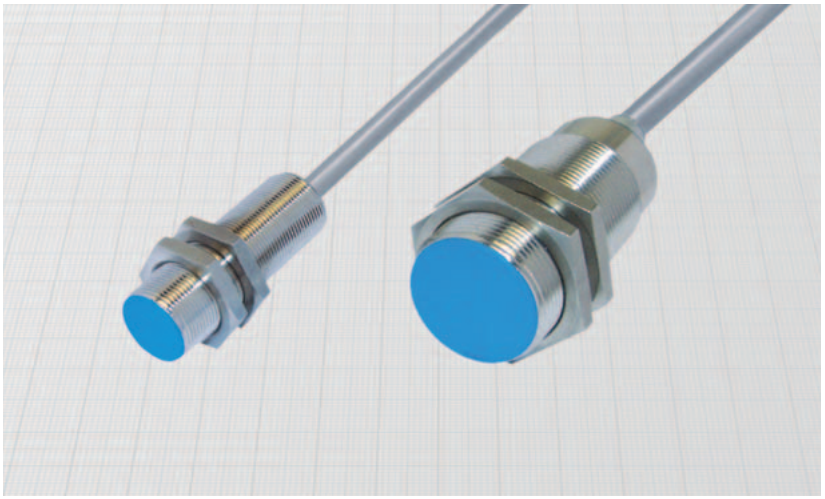
• Extended sensing distance - diameters 18 - 30 mm
• Amplified in d.c. 3 wires
• Cable output

Housing B-2



Housing G





Diameter		M18 x 1	M30 x 1,5
Nut	Size	SW24	SW36
	Thkns mm	4	5
Max tightening torque Nm		35	80

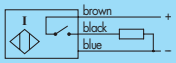
Materials:

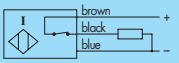
- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	mm	mm	V (min - max)	Hz	mA	mm		
B - 2	•	-	50	-	-	50	5	M18 x 1	7÷40	300	200	8	**DCAE18/4A09KS**	**DCAE18/4A19KS**
B - 2	•	-	50	-	-	50	5	M18 x 1	7÷40	300	200	10	**DCE18/4A09KS**	**DCE18/4A19KS**
B - 2	•	10	40	-	-	50	5	M18 x 1	7÷40	200	200	12	**DCAE18/5A09KS**	**DCAE18/5A19KS**
B - 2	•	10	40	-	-	50	5	M18 x 1	7÷40	200	200	14	**DCE18/5A09KS**	**DCE18/5A19KS**
G	•	-	50	10	-	60	6	M30 x 1,5	7÷40	100	200	15	**DCAE30/4609KS**	**DCAE30/4619KS**
G	•	-	50	10	-	60	6	M30 x 1,5	7÷40	100	200	20	**DCE30/4609KS**	**DCE30/4619KS**
G	•	15	35	10	-	60	6	M30 x 1,5	7÷40	100	200	20	**DCAE30/5609KS**	**DCAE30/5619KS**
G	•	15	35	10	-	60	6	M30 x 1,5	7÷40	100	200	28	**DCE30/5609KS**	**DCE30/5619KS**

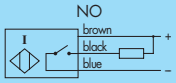


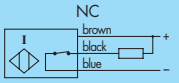


(*) Note: See mounting precautions (pag. 22)

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCE8/4608KS)





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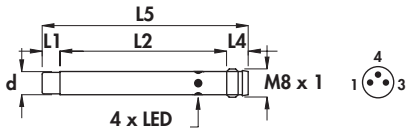
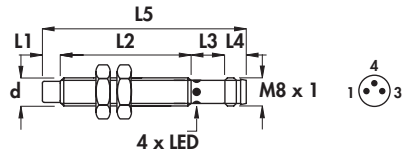
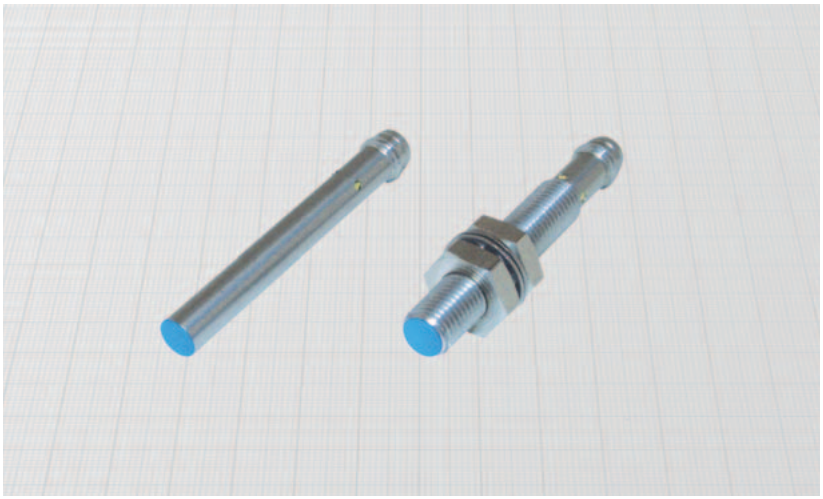
Extended sensing distance •
Amplified in d.c. •
Connector output M8 x 1 •

Housing I-5



Housing I-10





Diameter		M8 x 1
Nut	Size	SW13
	Thickness mm	4
Max tightening torque Nm		10

Materials:

- Housing: stainless steel
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

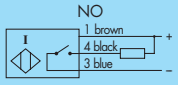
Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	Hz	mA	mm		
I-5	•	-	48,5	-	5,5	54	11 - 12	6,5	800	200	2	**DCAE6,5/4909LKS**	**DCAE6,5/4919LKS**
I-5	•	-	48,5	-	5,5	54	11 - 12	6,5	800	200	2,5	**DCE6,5/4909LKS**	**DCE6,5/4919LKS**
I-5	•	5	43,5	-	5,5	54	11 - 12	6,5	400	200	3	**DCAE6,5/5909LKS**	**DCAE6,5/5919LKS**
I-5	•	5	43,5	-	5,5	54	11 - 12	6,5	400	200	3,5	**DCE6,5/5909LKS**	**DCE6,5/5919LKS**
I-10	•	-	40	8,5	5,5	54	11 - 12	M8 x 1	800	200	2	**DCAE8/4909KS**	**DCAE8/4919KS**
I-10	•	-	40	8,5	5,5	54	11 - 12	M8 x 1	800	200	2,5	**DCE8/4909KS**	**DCE8/4919KS**
I-10	•	5	35	8,5	5,5	54	11 - 12	M8 x 1	400	200	3	**DCAE8/5909KS**	**DCAE8/5919KS**
I-10	•	5	35	8,5	5,5	54	11 - 12	M8 x 1	400	200	3,5	**DCE8/5909KS**	**DCE8/5919KS**

(*) Note: See mounting precautions (pag. 22)

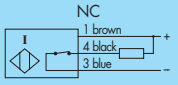
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCAE6,5/4908LKS)

NO

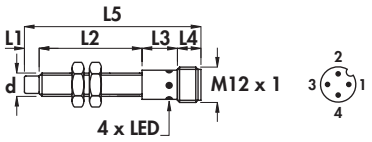


NC

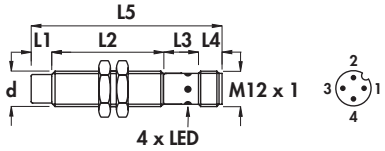


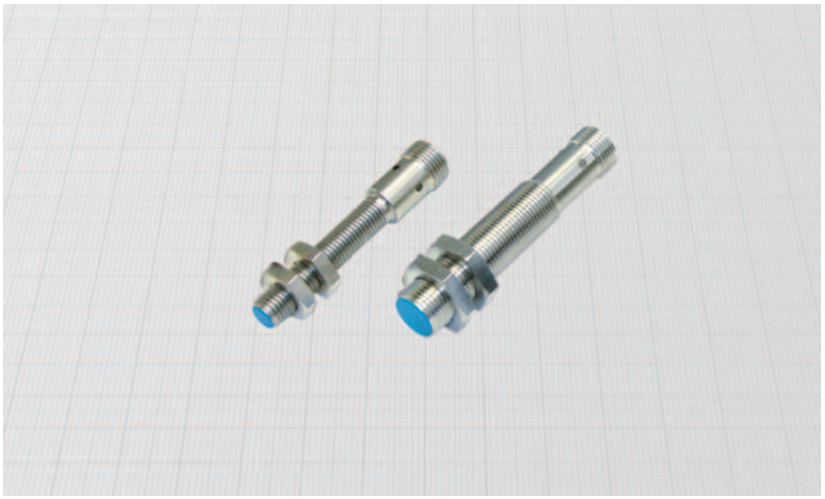
• Extended sensing distance - diameter 8 - 12 mm
• Amplified in d.c.
• Connector output M12 x 1

Housing I-11



Housing I-7





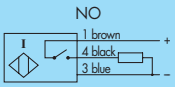
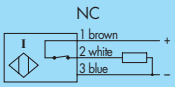
Diameter		M8 x 1	M12 x 1
Nut	Size	SW13	SW17
	Thkns mm	4	4
Max tightening torque Nm		10	15

Materials:

- Housing 8 mm: stainless steel
- Housing 12 mm: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- Rated operational current (I_e): 200 mA
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

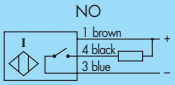
Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	V (min - max)	Hz	mm		
I-11	•	-	40	12	8	60	6 - 8B -10	M8 x 1	7 ÷ 30	800	2	**DCAE8/4309KS**	**DCAE8/43C9KS**
I-11	•	-	40	12	8	60	6 - 8B -10	M8 x 1	7 ÷ 30	800	2,5	**DCE8/4309KS**	**DCE8/43C9KS**
I-11		5	35	12	8	60	6 - 8B -10	M8 x 1	7 ÷ 30	400	3	**DCAE8/5309KS**	**DCAE8/53C9KS**
I-11		5	35	12	8	60	6 - 8B -10	M8 x 1	7 ÷ 30	400	3,5	**DCE8/5309KS**	**DCE8/53C9KS**
I-7	•	–	43	15	8	66	6 - 8B -10	M12 x 1	7 ÷ 40	800	3	**DCAE12/4309KS**	**DCAE12/43C9KS**
I-7	•		43	15	8	66	6 - 8B -10	M12 x 1	7 ÷ 40	800	4	**DCE12/4309KS**	**DCE12/43C9KS**
I-7		7	36	15	8	66	6 - 8B -10	M12 x 1	7 ÷ 40	600	5	**DCAE12/5309KS**	**DCAE12/53C9KS**
I-7		7	36	15	8	66	6 - 8B -10	M12 x 1	7 ÷ 40	600	6	**DCE12/5309KS**	**DCE12/53C9KS**

(*) Note: See mounting precautions (pag. 22)

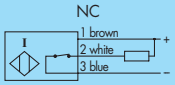
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCE8/4308KS)

NO



NC



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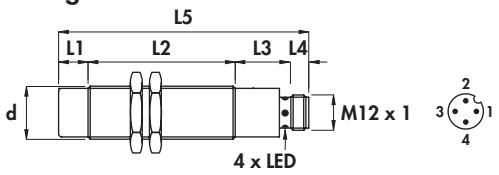
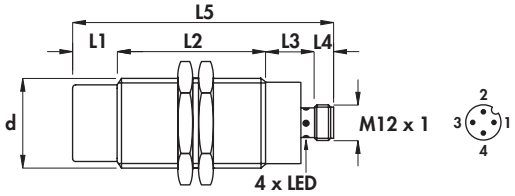
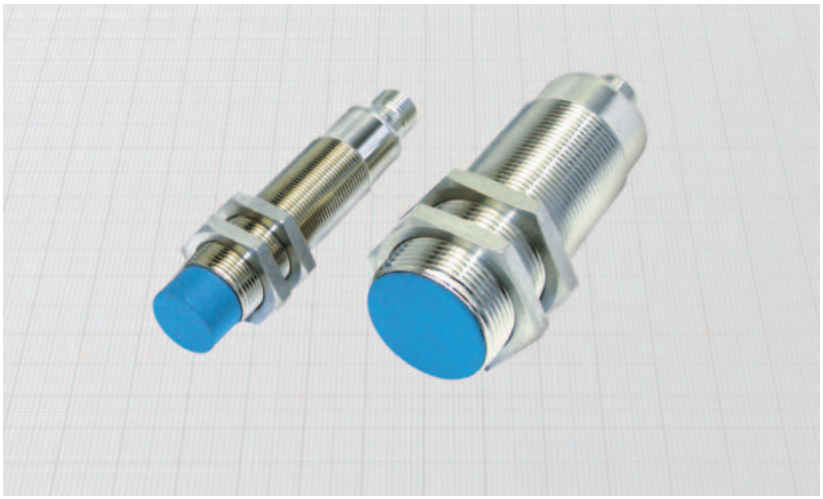
Extended sensing distance - diameters 18 - 30 mm •
Amplified in d.c. •
Connector output M12 x 1 •

Housing I-12



Housing I-2





Diameter		M18 x 1	M30 x 1,5
Nut	Size	SW24	SW36
	Thkns mm	4	5
Max tightening torque Nm		35	80

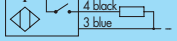
Materials:

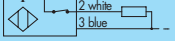
- Housing: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- Rated operational current (I_e): 200 mA
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	V (min - max)	Hz	mm		
I - 12	•	-	50	19	8	77	6 - 8B -10	M18 x 1	7 ÷ 40	300	10	**DCAE18/4309KS**	**DCAE18/43C9KS**
I - 12	•	-	50	19	8	77	6 - 8B -10	M18 x 1	7 ÷ 40	300	10	**DCE18/4309KS**	**DCE18/43C9KS**
I - 12	•	10	50	19	8	87	6 - 8B -10	M18 x 1	7 ÷ 40	200	14	**DCAE18/5309KS**	**DCAE18/53C9KS**
I - 12	•	10	50	19	8	87	6 - 8B -10	M18 x 1	7 ÷ 40	200	14	**DCE18/5309KS**	**DCE18/53C9KS**
I - 2	•	-	65	17	8	90	6 - 8B -10	M30 x 1,5	7 ÷ 40	100	20	**DCAE30/4309KS**	**DCAE30/43C9KS**
I - 2	•	-	65	17	8	90	6 - 8B -10	M30 x 1,5	7 ÷ 40	100	20	**DCE30/4309KS**	**DCE30/43C9KS**
I - 2	•	15	50	17	8	90	6 - 8B -10	M30 x 1,5	7 ÷ 40	100	28	**DCAE30/5309KS**	**DCAE30/53C9KS**
I - 2	•	15	50	17	8	90	6 - 8B -10	M30 x 1,5	7 ÷ 40	100	28	**DCE30/5309KS**	**DCE30/53C9KS**

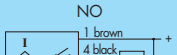


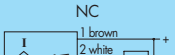


(*) Note: See mounting precautions (pag. 22)

NPN (negative switching)

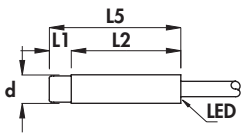
Use the above mentioned part number changing the last number 9 with 8 (ie. DCE8/4308KS)



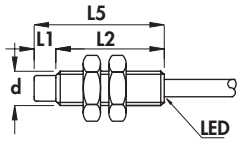


• SHORT SERIES - Extended sensing distance
• Amplified in d.c. 3 wires
• Cable output

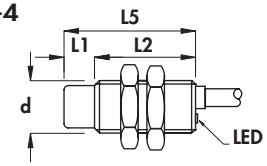
Housing A



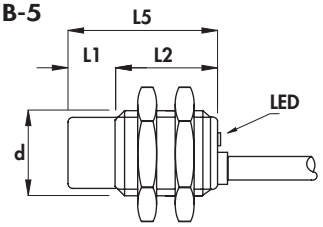
Housing B

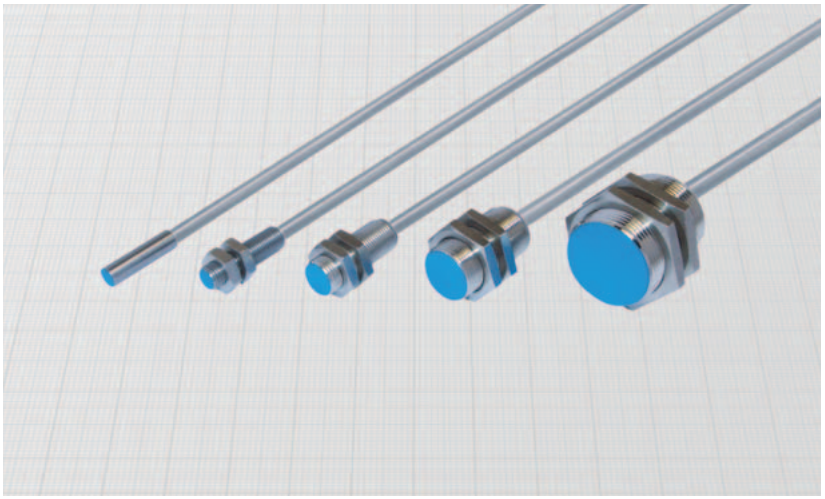


Housing B-4



Housing B-5





Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

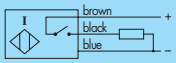
Materials:

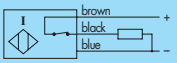
- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing 6,5 and 8 mm: stainless steel
- Housing 12 ÷ 30 mm: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,22 mm² on 6,5 and 8 mm
  0,35 mm² on 12 mm
  0,50 mm² on 18 and 30 mm
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*)	Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
			mm	mm	mm	mm	mm	mm	mm	V (min - max)	Hz	mA	mm		
A	•		-	30	-	-	30	3,5	6,5	7 ÷ 30	800	200	2,5	**DSE6,5/4609LKS**	**DSE6,5/4619LKS**
B	•		-	30	-	-	30	3,5	M8 x 1	7 ÷ 30	800	200	2,5	**DSE8/4609KS**	**DSE8/4619KS**
B - 4	•		-	30	-	-	30	4	M12 x 1	7 ÷ 30	800	200	4	**DSE12/4609KS**	**DSE12/4619KS**
B - 4		•	7	23	-	-	30	4	M12 x 1	7 ÷ 30	600	200	6	**DSE12/5609KS**	**DSE12/5619KS**
B - 5	•		-	35	-	-	35	5	M18 x 1	7 ÷ 40	300	200	10	**DSE18/4609KS**	**DSE18/4619KS**
B - 5		•	10	25	-	-	35	5	M18 x 1	7 ÷ 40	200	200	14	**DSE18/5609KS**	**DSE18/5619KS**
B - 5	•		-	35	-	-	35	6	M30 x 1,5	7 ÷ 40	100	200	20	**DSE30/4609KS**	**DSE30/4619KS**
B - 5		•	15	20	-	-	35	6	M30 x 1,5	7 ÷ 40	100	200	28	**DSE30/5609KS**	**DSE30/5619KS**

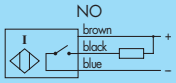


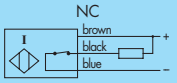


(*) Note: See mounting precautions (pag. 22)

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DSE6,5/4608LKS)





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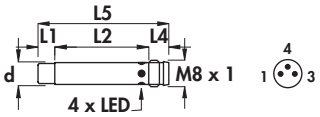
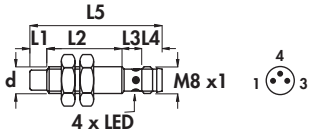
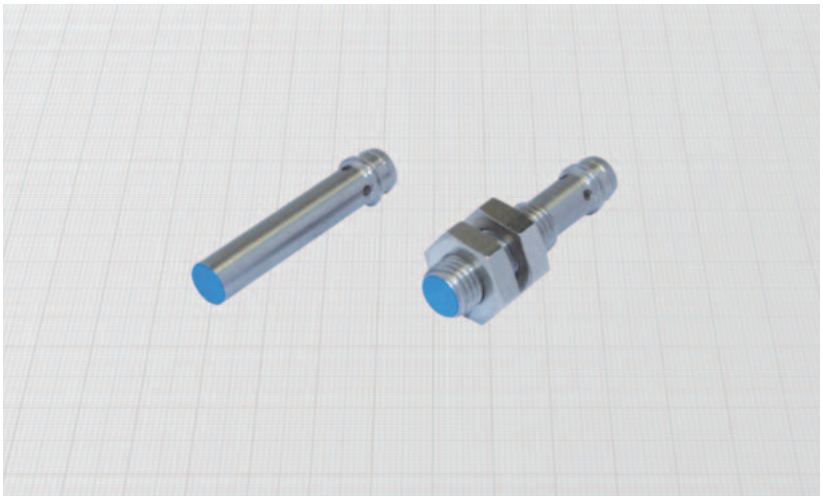
SHORT SERIES - Extended sensing distance • Amplified in d.c. • Connector output M8 x 1 •

Housing I-8



Housing I-6





Diameter		M8 x 1
Nut	Size	SW13
	Thickness mm	4
Max tightening torque Nm		10

Materials:

- Housing: stainless steel
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	n°	mm	Hz	mA	mm		
I-8	•	-	29,5	-	5,5	35	11 - 12	6,5	800	200	2,5	**DSE6,5/4909LKS**	**DSE6,5/4919LKS**
I-6	•	-	21	8,5	5,5	35	11 - 12	M8 x 1	800	200	2,5	**DSE8/4909KS**	**DSE8/4919KS**

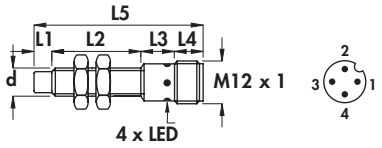
(*) Note: See mounting precautions (pag. 22)

NPN (negative switching)

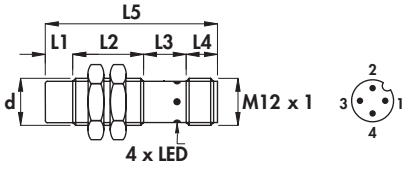
Use the above mentioned part number changing the last number 9 with 8 (ie. DSE6,5/4908LKS)

- **SHORT SERIES - Extended sensing distance**
- **Amplified in d.c.**
- Connector output M12 x 1

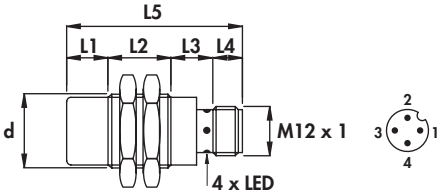
Housing I

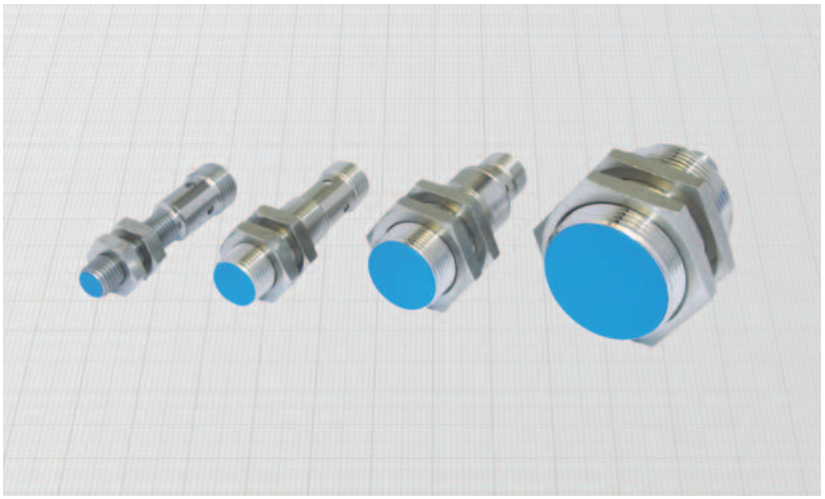


Housing I-9



Housing I-1





Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

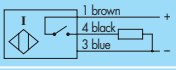
Materials:

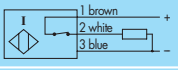
- Housing 8 mm: stainless steel
- Housing 12 ÷ 30 mm: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- Rated operational current (I_e): 200 mA
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 20° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 4%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*) / Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	NC
		mm	mm	mm	mm	mm	n°	mm	V (min - max)	Hz	mm		
I	•	-	26	13	8	47	6 - 8B -10	M8 x 1	7 ÷ 30	800	2,5	**DSE8/4309KS**	**DSE8/43C9KS**
I-9	•	-	30	10	8	48	6 - 8B -10	M12 x 1	7 ÷ 30	800	4	**DSE12/4309KS**	**DSE12/43C9KS**
I-9	•	7	23	10	8	48	6 - 8B -10	M12 x 1	7 ÷ 30	600	6	**DSE12/5309KS**	**DSE12/53C9KS**
I-1	•	-	30	19	8	57	6 - 8B -10	M18 x 1	7 ÷ 40	300	10	**DSE18/4309KS**	**DSE18/43C9KS**
I-1	•	10	25	15	8	58	6 - 8B -10	M18 x 1	7 ÷ 40	200	14	**DSE18/5309KS**	**DSE18/53C9KS**
I-1	•	-	25	17	8	50	6 - 8B -10	M30 x 1,5	7 ÷ 40	100	20	**DSE30/4309KS**	**DSE30/43C9KS**
I-1	•	15	25	17	8	65	6 - 8B -10	M30 x 1,5	7 ÷ 40	100	28	**DSE30/5309KS**	**DSE30/53C9KS**

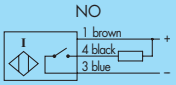


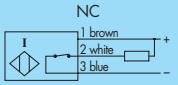


(*) Note: See mounting precautions (pag. 22)

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DSE8/4308KS)





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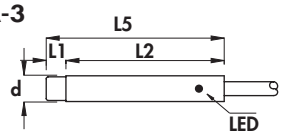
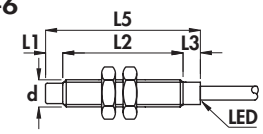
With extended temperature range (- 40° ÷ + 85°C) • Amplified in d.c. 3 and 4 wires • Cable output •

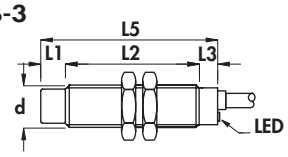
Housing A-3



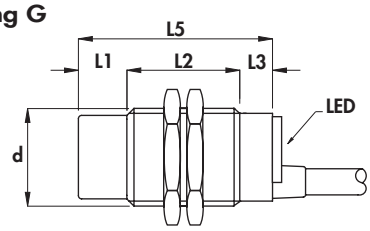
Housing B-6



Housing B-3



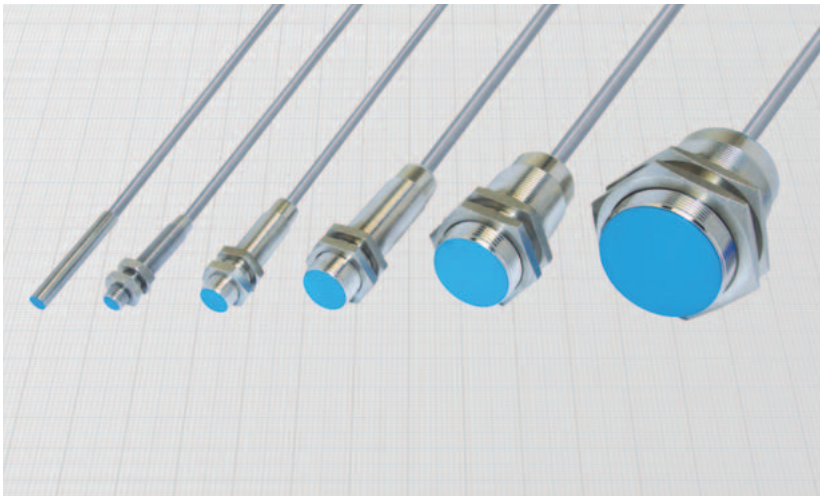
Housing G



Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5	M45 x 1,5
Nut	Size	SW13	SW17	SW24	SW36	SW55
	Thkns mm	4	4	4	5	5
Max tightening torque Nm		10	15	35	80	70

Materials:

- Cable: 2 m thermoplastic 140°C; 300 V; O.R.
- Housing 6,5 and 8 mm: stainless steel
- Housing 12 ÷ 45 mm: nickel plated brass
- Sensing face: plastic



Technical data:

- Supply voltage (U_B): 10 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): see ordering references
- Temperature range: - 40° ÷ + 85°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,35 mm² on 6,5 - 8 - 12 mm
  0,50 mm² on 18, 30 and 45 mm
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L2	L3	L5	Cable diameter	Body diameter (d)	Voltage drop (U_d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	mm	V	KHz	mA	mm			
A - 3	•	45	-	45	4	6,5	1,5	4	150	1,5	**DCA6,5/4609LKST**	**DCA6,5/4619LKST**	-
B - 6	•	40	5	45	4	M8 x 1	1,5	4	150	1,5	**DCA8/4609KST**	**DCA8/4619KST**	-
B - 3	•	43	7	50	4	M12 x 1	1,5	2	150	2	**DCA12/4609KST**	**DCA12/4619KST**	-
B - 3	•	58	12	70	5	M18 x 1	2,2	1	250	5	**DCA18/4609KST**	**DCA18/4619KST**	**DCA18/4629KST**
G	•	50	10	60	6	M30 x 1,5	2,2	0,8	250	10	**DCA30/4609KST**	**DCA30/4619KST**	**DCA30/4629KST**
G	•	50	10	60	6	M45 x 1,5	2,2	0,15	250	20	**DCA45/4609KST**	**DCA45/4619KST**	**DCA45/4629KST**

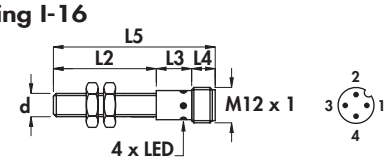
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA6,5/4608LKST)

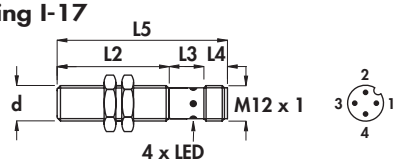
NO: brown, black, blue — NC: brown, black, blue — NO + NC: brown, black, white, blue

- **With extended temperature range (-40° ÷ + 85°C)**
- **Amplified in d.c. 3 and 4 wires**
- Connector output M12 x 1

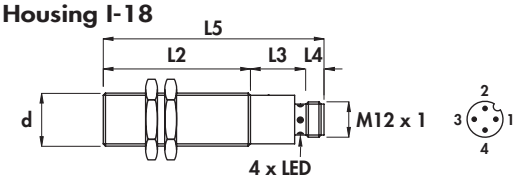
Housing I-16



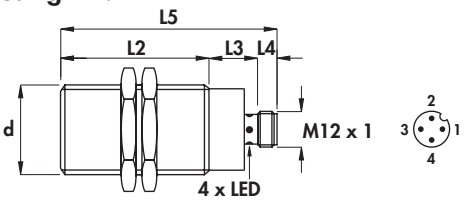
Housing I-17



Housing I-18



Housing I-19



Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5	M45 x 1,5
Nut	Size	SW13	SW17	SW24	SW36	SW55
	Thkns mm	4	4	4	5	5
Max tightening torque Nm		10	15	35	80	70

Materials:

- Housing 8 mm: stainless steel
- Housing 12 ÷ 45 mm: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 10 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): see ordering references
- Temperature range: - 40° ÷ + 85°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting Non flush mounting	L2	L3	L4	L5	Female connector (see pag. H - 1)	Body diameter (d)	Voltage drop (U_d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing dist. (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	n°	mm	V	KHz	mA	mm			
I - 16	•	40	12	8	60	8B -10...T	M8 x 1	1,5	4	150	1,5	**DCA8/4309KST**	**DCA8/43C9KST**	-
I - 17	•	43	15	8	66	8B -10...T	M12 x 1	1,5	2	150	2	**DCA12/4309KST**	**DCA12/43C9KST**	**DCA12/4329KST**
I - 18	•	50	19	8	77	8B -10...T	M18 x 1	2,2	1	250	5	**DCA18/4309KST**	**DCA18/43C9KST**	**DCA18/4329KST**
I - 19	•	65	17	8	90	8B -10...T	M30 x 1,5	2,2	0,8	250	10	**DCA30/4309KST**	**DCA30/43C9KST**	**DCA30/4329KST**
I - 19	•	50	19	8	77	8B -10...T	M45 x 1,5	2,2	0,15	250	20	**DCA45/4309KST**	**DCA45/43C9KST**	**DCA45/4329KST**

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA8/4308KST)

NO: 1 brown, 4 black, 3 blue — NC: 1 brown, 2 white, 3 blue — NO + NC: 1 brown, 4 black, 2 white, 3 blue

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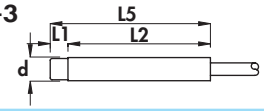
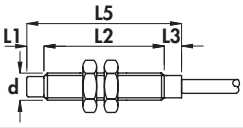
For high temperatures (-25° ÷ +125°C) • Amplified in d.c. 3 and 4 wires • Cable output •

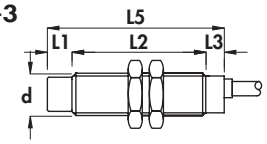
Housing A-3



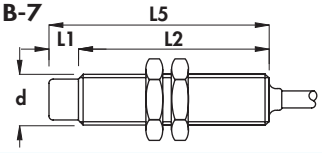
Housing B-6



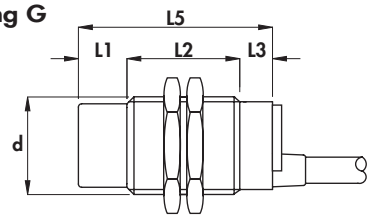
Housing B-3



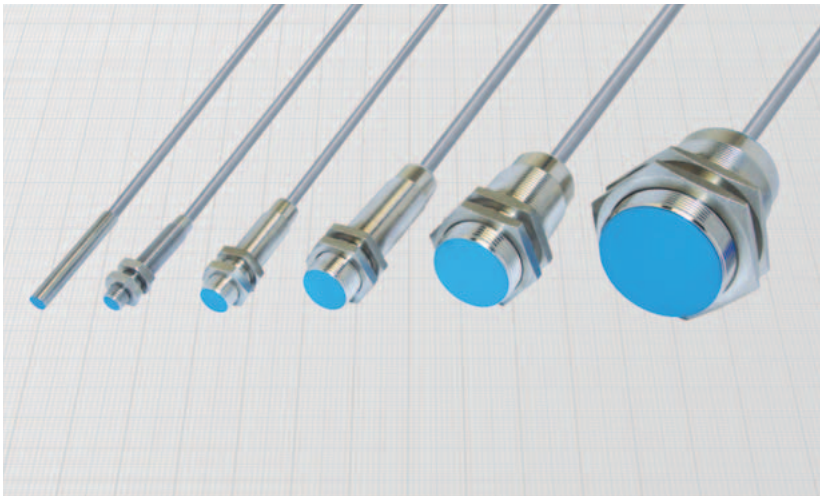
Housing B-7



Housing G



Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5	M45 x 1,5
Nut	Size	SW13	SW17	SW24	SW36	SW55
	Thickness mm	4	4	4	5	5
Max tightening torque Nm		10	15	35	80	70



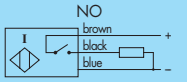
Technical data:

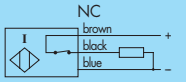
- Supply voltage (U_B): 10 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): see ordering references
- Temperature range: - 25° ÷ +125°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Cable conductor cross section: 0,35 mm² on 6,5 - 8 - 12 mm
  0,50 mm² on 18 - 30 - 45 mm
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

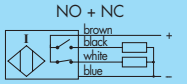
Materials:

- Cable: 2 m thermoplastic 140°C; 300 V; O.R.
- Housing 6,5 and 8 mm: stainless steel
- Housing 12 ÷ 45 mm: nickel plated brass
- Sensing face: plastic

Housing	Flush mounting / Non flush mounting	L2	L3	L5	Cable diameter	Body diameter (d)	Voltage drop (U_d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ±10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	mm	V	KHz	mA	mm			
A - 3	•	45	-	45	4	6,5	1,5	4	150	1,5	**DCA6,5/4609LKT**	**DCA6,5/4619LKT**	-
B - 6	•	40	5	45	4	M8 x 1	1,5	4	150	1,5	**DCA8/4609KT**	**DCA8/4619KT**	-
B - 3	•	43	7	50	4	M12 x 1	1,5	2	150	2	**DCA12/4609KT**	**DCA12/4619KT**	-
B - 7	•	65	-	65	5	M18 x 1	2,2	1	250	5	**DCA18/4609KT**	**DCA18/4619KT**	**DCA18/4629KT**
G	•	50	10	60	6	M30 x 1,5	2,2	0,8	250	10	**DCA30/4609KT**	**DCA30/4619KT**	**DCA30/4629KT**
G	•	50	10	60	6	M45 x 1,5	2,2	0,15	250	20	**DCA45/4609KT**	**DCA45/4619KT**	**DCA45/4629KT**

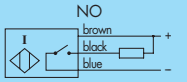


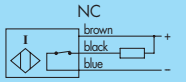


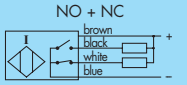


NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA6,5/4608LKT)

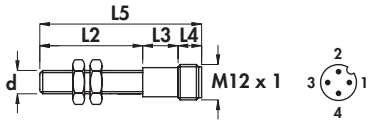




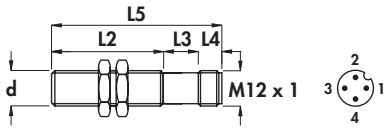


- **For high temperatures (-25° ÷ + 120°C)**
- **Amplified in d.c. 3 and 4 wires**
- Connector output M12 x 1

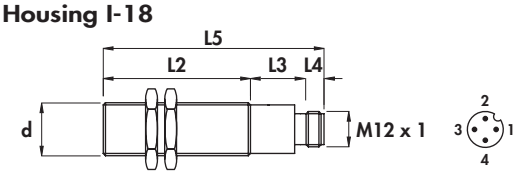
Housing I-16



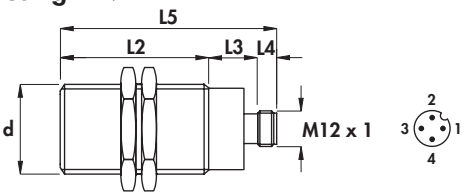
Housing I-17



Housing I-18



Housing I-19



Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

Materials:

- Housing 8 mm: stainless steel
- Housing 12 ÷ 30 mm: nickel plated brass
- Sensing face: plastic

Technical data:

- Supply voltage (U_B): 10 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): see ordering references
- Temperature range: - 25° ÷ +120° C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting Non flush mounting	L2	L3	L4	L5	Female connector (see pag. H - 1)	Body diameter (d)	Voltage drop (U_d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing dist. (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	n°	mm	V	KHz	mA	mm			
I - 11	•	40	12	8	60	8B -10...T	M8 x 1	1,5	4	150	1,5	**DCA8/4309KT**	**DCA8/43C9KT**	-
I - 7	•	43	15	8	66	8B -10...T	M12 x 1	1,5	2	150	2	**DCA12/4309KT**	**DCA12/43C9KT**	**DCA12/4329KT**
I - 12	•	50	19	8	77	8B -10...T	M18 x 1	2,2	1	250	5	**DCA18/4309KT**	**DCA18/43C9KT**	**DCA18/4329KT**
I - 2	•	65	17	8	90	8B -10...T	M30 x 1,5	2,2	0,8	250	10	**DCA30/4309KT**	**DCA30/43C9KT**	**DCA30/4329KT**
I - 2	•	50	19	8	77	8B -10...T	M45 x 1,5	2,2	0,15	250	20	**DCA45/4309KT**	**DCA45/43C9KT**	**DCA45/4329KT**

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA8/4308KT)

NO: 1 brown, 4 black, 3 blue — NC: 1 brown, 2 white, 3 blue — NO + NC: 1 brown, 4 black, 2 white, 3 blue

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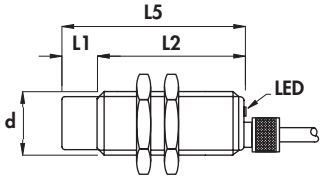
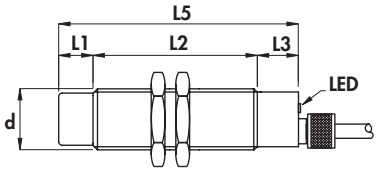
Degree of protection IP68 •
Amplified in d.c. 3 and 4 wires •
Cable and connector output M12 x 1 •

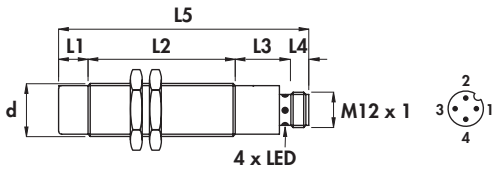
Housing J-1



Housing J-2



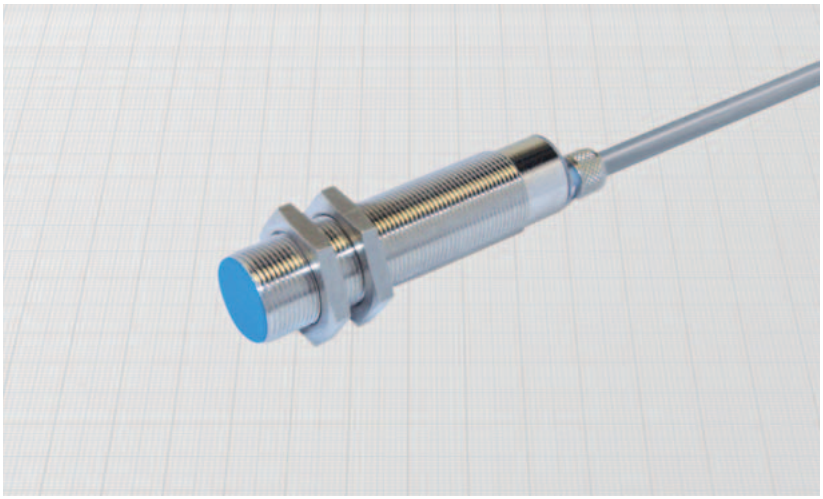
Housing I-12



Diameter		M18 x 1
Nut	Size	SW24
	Thickness mm	4
Max tightening torque Nm		35

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing and gland: nickel plated brass
- Sensing face: plastic



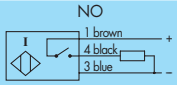
General Features:

This new series solves definitively the problem of the ingress of liquids to the inner parts of the sensors. Thanks to the inner hermetic sealing they can be submitted to no-stop jets of liquids under pressure even in presence of temperature changes.
They find application in automatic washing machinery, in machines subject to water jets and in continuous immersion applications.

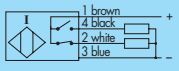
Technical data:

- Supply voltage (U_B): 7 ÷ 60 Vdc
- Max ripple: 10%
- Rated operational current (I_e): 400 mA
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 2,2 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP68
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Female connector	Body diameter (d)	Max switching frequency (f)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	NC	NO + NC
		mm	mm	mm	mm	mm	mm	n°	mm	KHz	mm			
J-1	•	-	50	-	-	50	5	-	M18 x 1	1	5	**DCA18/4A09KSJ**	**DCA18/4A19KSJ**	-
J-1	•	10	40	-	-	50	5	-	M18 x 1	1	8	**DCA18/5A09KSJ**	**DCA18/5A19KSJ**	-
J-2	•	-	58	12	-	70	5	-	M18 x 1	1	5	**DCA18/4609KSJ**	**DCA18/4619KSJ**	**DCA18/4629KSJ**
J-2	•	10	48	12	-	70	5	-	M18 x 1	1	8	**DCA18/5609KSJ**	**DCA18/5619KSJ**	**DCA18/5629KSJ**
I-12	•	-	50	19	8	77	-	6 - 8B -10	M18 x 1	1	5	**DCA18/4309KSJ**	**DCA18/43C9KSJ**	**DCA18/4329KSJ**
I-12	•	10	50	19	8	87	-	6 - 8B -10	M18 x 1	1	8	**DCA18/5309KSJ**	**DCA18/53C9KSJ**	**DCA18/5329KSJ**

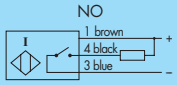


(•) Note: In versions with connector use the white wire.

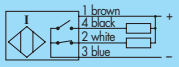


NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA18/4A08KSJ)

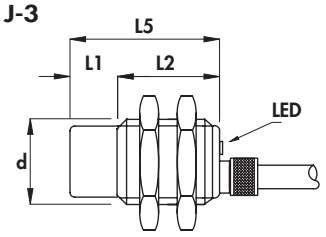


(•) Note: In versions with connector use the white wire.

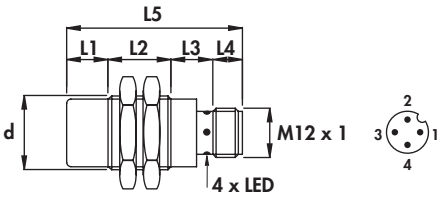


• SHORT SERIES - degree of protection IP68
• Amplified in d.c. 3 wires
• Cable and connector output M12 x 1

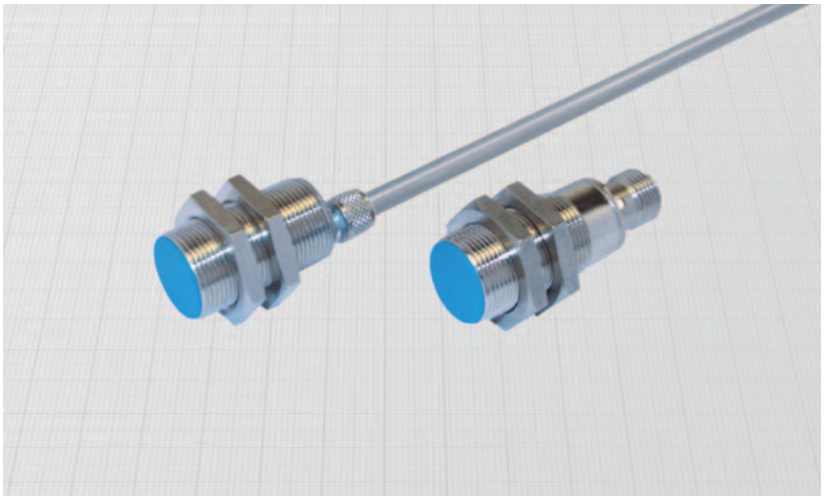
Housing J-3



Housing I-1



Diameter		M18 x 1
Nut	Size	SW24
	Thickness mm	4
Max tightening torque Nm		35



Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing and gland: nickel plated brass
- Sensing face: plastic

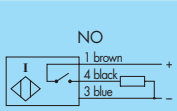
General Features:

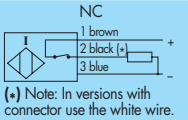
This new series solves definitively the problem of the ingress of liquids to the inner parts of the sensors. Thanks to the inner hermetic sealing they can be submitted to no-stop jets of liquids under pressure even in presence of temperature changes.
They find application in automatic washing machinery, in machines subject to water jets and in continuous immersion applications.

Technical data:

- Supply voltage (U_B): 5 ÷ 40 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP68
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
			mm	mm	mm	mm	mm	mm	n°	mm	KHz	mA	mm		
J - 3	•		-	30	-	-	30	5	-	M18 x 1	0,8	200	5	**DSA18/4609KSJ**	**DSA18/4619KSJ**
J - 3		•	10	20	-	-	30	5	-	M18 x 1	0,6	200	8	**DSA18/5609KSJ**	**DSA18/5619KSJ**
I - 1	•		-	25	15	8	48	-	6 - 8B -10	M18 x 1	0,8	200	5	**DSA18/4309KSJ**	**DSA18/43C9KSJ**
I - 1		•	10	15	15	8	48	-	6 - 8B -10	M18 x 1	0,6	200	8	**DSA18/5309KSJ**	**DSA18/53C9KSJ**

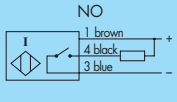


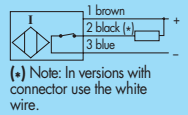


(•) Note: In versions with connector use the white wire.

NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DSA18/4608KSJ)





(•) Note: In versions with connector use the white wire.

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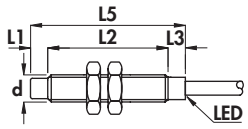
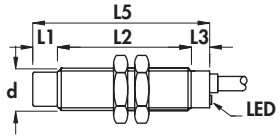
Non polarized •
Amplified in d.c. 2 wires •
Cable output •

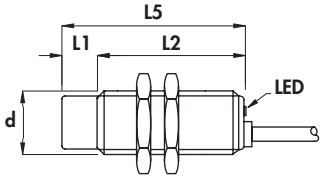
Housing B-6



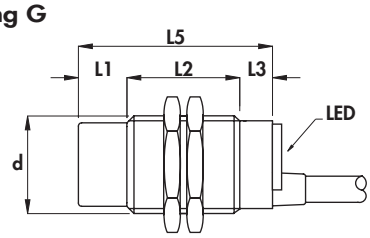
Housing B-3



Housing B-2



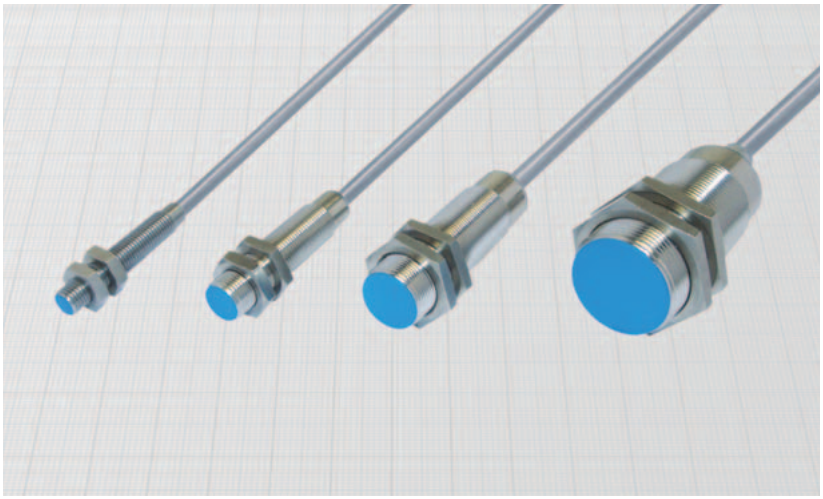
Housing G



Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing 8 mm: stainless steel
- Housing 12-18-30 mm: nickel plated brass
- Sensing face: plastic PBT



General Features:

These sensors are not polarized and the load can be connected on both positive and negative lead (function PNP or NPN).
So they can replace traditional mechanical microswitches in many applications.

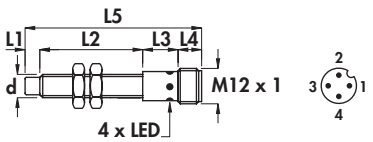
Technical data:

- Supply voltage (U_B): 10 ÷ 55 Vdc
- Max ripple: 10%
- Off-state current (I_r): ≤ 1 mA
- Minimum operational current (I_m): 5 mA
- Voltage drop (U_d) with I_e = 10 mA: ≤ 5 V
- Voltage drop (U_d) with I_e = 100 mA: ≤ 6 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,34 mm² on 8 and 12 mm
  0,50 mm² on 18 mm
  0,75 mm² on 30 mm
- Protected against short-circuit and overload (versions with letter K)
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

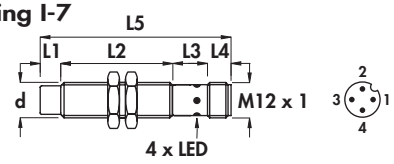
Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Nominal sensing distance (S_n) ±10%	Max switching frequency (f)	Rated operational current (I_e)	ORDERING REFERENCES NO	ORDERING REFERENCES NC
		mm	mm	mm	mm	mm	mm	mm	mm	Hz	mA		
B-6	•	-	40	5	-	45	4	M8 x 1	1,5	1200	100	**DCM8/4600S**	**DCM8/4610S**
B-6	•	5	35	5	-	45	4	M8 x 1	2,5	1000	100	**DCM8/5600S**	**DCM8/5610S**
B-3	•	-	43	7	-	50	4	M12 x 1	2	1200	200	**DCM12/4600KS**	**DCM12/4610KS**
B-3	•	7	36	7	-	50	4	M12 x 1	4	1000	200	**DCM12/5600KS**	**DCM12/5610KS**
B-2	•	-	50	-	-	50	5	M18 x 1	5	1100	250	**DCM18/4A00KS**	**DCM18/4A10KS**
B-2	•	10	40	-	-	50	5	M18 x 1	8	700	250	**DCM18/5A00KS**	**DCM18/5A10KS**
G	•	-	50	10	-	60	6	M30 x 1,5	10	800	250	**DCM30/4600KS**	**DCM30/4610KS**
G	•	15	35	10	-	60	6	M30 x 1,5	15	400	250	**DCM30/5600KS**	**DCM30/5610KS**

- **Non polarized**
- **Amplified in d.c. 2 wires**
- Connector output

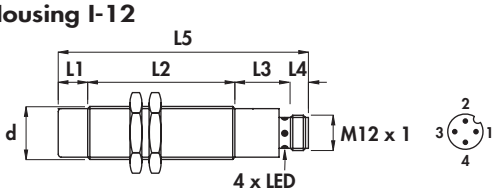
Housing I-11



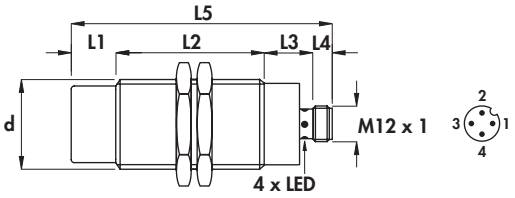
Housing I-7



Housing I-12



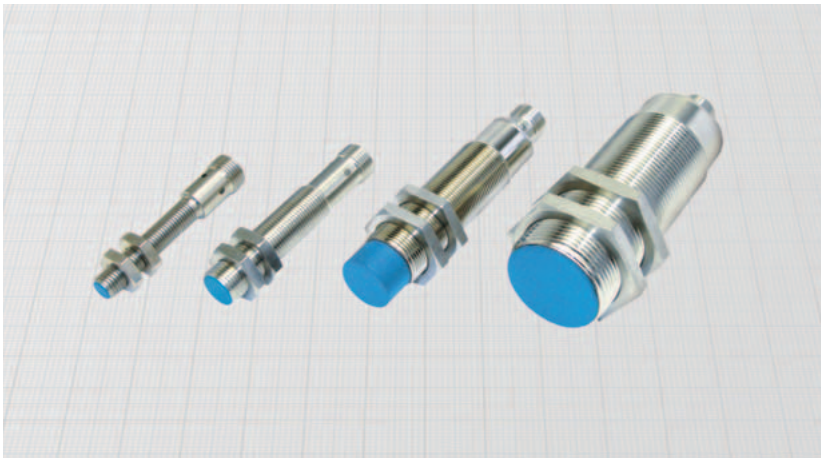
Housing I-2



Diameter		M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24	SW36
	Thickness mm	4	4	4	5
Max tightening torque Nm		10	15	35	80

Materials:

- Housing 8 mm: stainless steel
- Housing 12- 18 - 30 mm: nickel plated brass
- Sensing face: plastic PBT

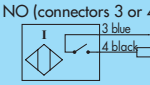
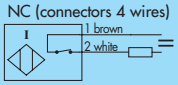


General Features:

These sensors are not polarized and the load can be connected on both positive and negative sectors (function PNP or NPN).
So they can replace traditional mechanical microswitches in many applications. Utilization of connectors without LED is recommended.

Technical data:

- Supply voltage (U_B): 10 ÷ 55 Vdc
- Max ripple: 10%
- Off-state current (I_r): ≤ 1 mA
- Minimum operational current (I_m): 5 mA
- Voltage drop (U_d) with I_e = 10 mA: ≤ 5 V
- Voltage drop (U_d) with I_e = 100 mA: ≤ 6 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload (versions with letter K)
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting	Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Nominal sensing distance (S_n) ±10%	Max switching frequency (f) in d.c.	Rated operational current (I_e)	ORDERING REFERENCES NO (connectors 3 or 4 wires)	ORDERING REFERENCES NC (connectors 4 wires)
			mm	mm	mm	mm	mm	n°	mm	mm	Hz	mA		
I-11	•		-	40	12	8	60	6-8B-10	M8 x 1	1,5	1200	100	**DCM8/4300S**	**DCM8/4310S**
I-11		•	5	35	12	8	60	6-8B-10	M8 x 1	2,5	1000	100	**DCM8/5300S**	**DCM8/5310S**
I-7	•		-	43	15	8	66	6-8B-10	M12 x 1	2	1200	200	**DCM12/4300KS**	**DCM12/4310KS**
I-7		•	7	36	15	8	66	6-8B-10	M12 x 1	4	1000	200	**DCM12/5300KS**	**DCM12/5310KS**
I-12	•		-	50	19	8	77	6-8B-10	M18 x 1	5	1100	250	**DCM18/4300KS**	**DCM18/4310KS**
I-12		•	10	50	19	8	87	6-8B-10	M18 x 1	8	700	250	**DCM18/5300KS**	**DCM18/5310KS**
I-2	•		-	65	17	8	90	6-8B-10	M30 x 1,5	10	800	250	**DCM30/4300KS**	**DCM30/4310KS**
I-2		•	15	50	17	8	90	6-8B-10	M30 x 1,5	15	400	250	**DCM30/5300KS**	**DCM30/5310KS**

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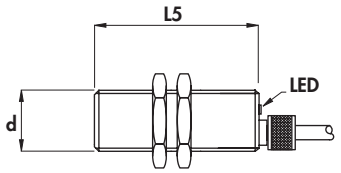
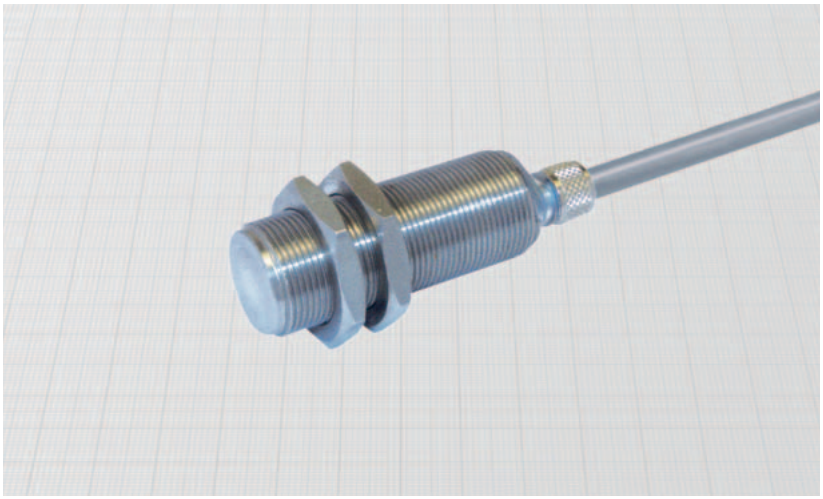
Stainless steel sensing face •
Amplified in d.c. 3 wires •
Cable output •

Housing B-8



Diameter		M18 x 1
Nut	Size	SW24
	Thickness mm	4
Max tightening torque Nm		35



Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing: stainless steel
- Sensing face: stainless steel

General Features:

This particular type of sensor has increased mechanical and chemical resistance:

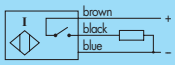
- **fluid ingress resistant**
- **pressure resistant**
- **corrosion resistant**
- **impact resistant**
- **vibration resistant**
- **abrasion and incandescent objects resistant**

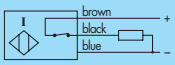
These particulars characteristics are mainly dependent by the building of the body, which is made from a single solid piece of stainless steel. The absence of junctions doesn't allow the fluid ingress through the sensing face. A very special sealing system on the back side makes of this sensor the ideal solution for the most critical applications.

Technical data:

- Supply voltage (U_B): 7 ÷ 40 Vdc
- Max ripple: 10%
- No-load supply current (I_o): ≤ 10 mA
- Voltage drop (U_d): ≤ 1,5 V
- Temperature range: - 25° ÷ + 75°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP68
- Max pressure on the front side: 50 bar
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 CE
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	Rated operational current (I_e)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES PNP (positive switching) NO	ORDERING REFERENCES PNP (positive switching) NC
		mm	mm	mm	mm	mm	mm	mm	Hz	mA	mm		
B - 8	•	-	-	-	-	45	5	M18 x 1	50	200	5	**DCA18/4609MKSJ**	**DCA18/4619MKSJ**

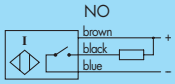


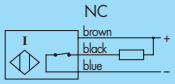


(*) Note: See mounting precautions (pag. 22)

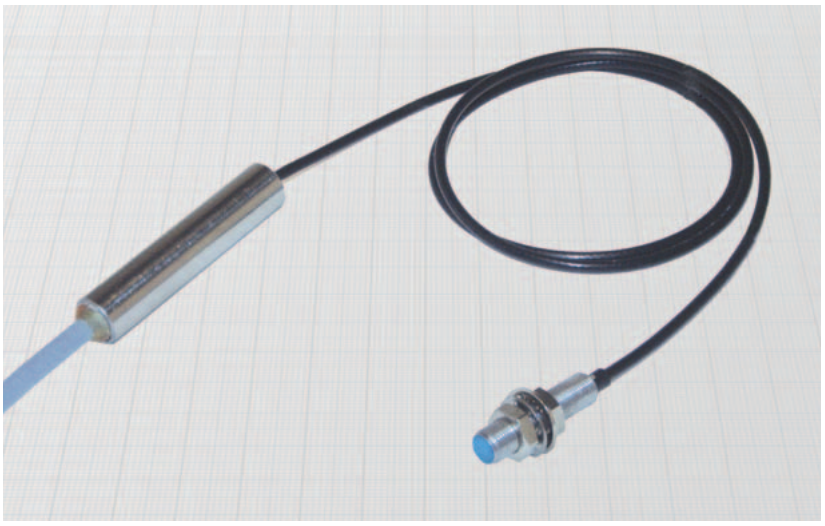
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie. DCA18/4608MKSJ)





- **Amplified in d.c. 3 wires**
- **High precision**
- **Switching hysteresis < 1 µm**
- Cable output



General Features:

This unique sensor enables the detection of metallic targets with extremely high precision without contact. By using an implemented software algorithm and a laser working process it has a very stable and precise switching point with a hysteresis lower than 1 µm.

Applications:

- Semiconductors industry
- Quality control instruments
- High precision mechanical devices
- Calibration equipments

Technical data:

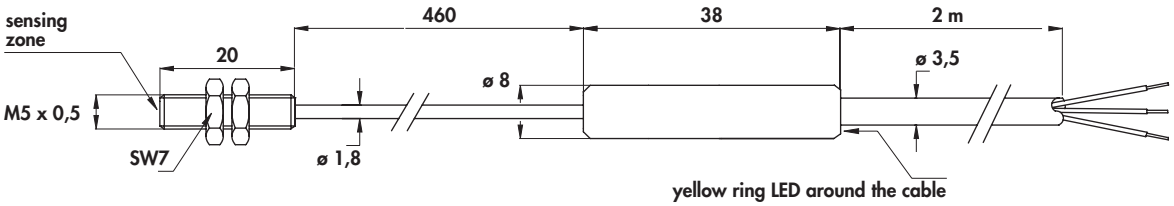
• Supply voltage (U_B):	5 ÷ 13 Vdc
• Consumption:	≤ 10 mA
• Voltage drop (I_o =10 mA):	≤ 0.5 V
• Voltage drop (I_o =100 mA):	≤ 1 V
• Output polarity:	NPN open collector
• Output logic:	normally open
• Repeat accuracy (R):	< ± 2 µm
• Switch hysteresis (H):	< 1 µm
• Temperature range:	10 ÷ 40°C
• Degree of protection:	IP67
• Cable conductor cross section:	0,22 mm²
• Electromagnetic compatibility (EMC) according to EN60947-5-2	CE
• Shock and vibration resistance according to EN60068-2-27 EN60068-2-6	

Diameter		M5 x 0,5
Nut	Size	SW7
	Thickness mm	2,5
Max tightening torque Nm		2

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C
- Housing sensor and amplifier: stainless steel

Sensor **Amplifier (smooth body)**



Flush mounting Non flush mounting	Cable diameter	Sensor diameter	Amplifier diameter	Rated operational current (I_e)	Max switching frequency (f)	Nominal sensing distance (S_n) ± 10%	ORDERING REFERENCES NPN (negative switching)
	mm	mm	mm	mA	Hz	mm	NO: brown (+), black (I), blue (-)
•	3,5	M5 x 0,5	8	100	100	0,9	**IPS05/4608KS**

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