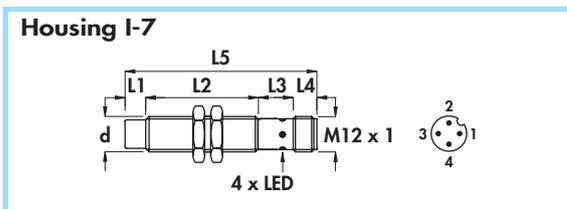
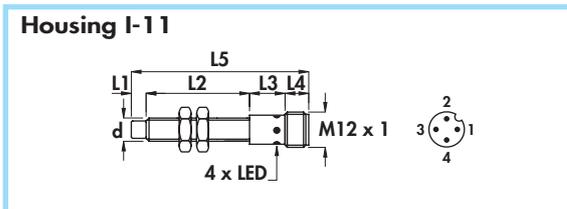


CYLINDRICAL INDUCTIVE SENSORS IN METAL HOUSING

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



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

Materials:

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

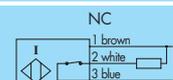
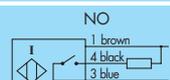
Technical data:

- Supply voltage (U_B): see ordering references
- Max ripple: 10%
- Rated operational current (I_B): 200 mA
- No-load supply current (I_0): ≤ 10 mA
- Voltage drop (U_d): $\leq 1,5$ V
- Temperature range: $-20^\circ \div +70^\circ\text{C}$
- Max thermal drift of sensing distance S_T : $\pm 10\%$
- 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
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

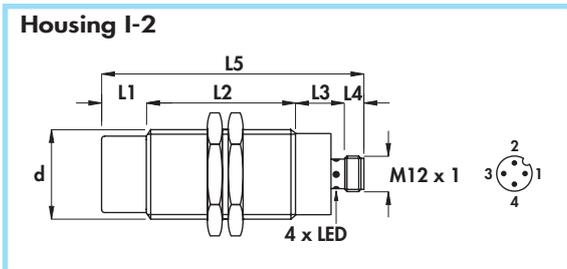
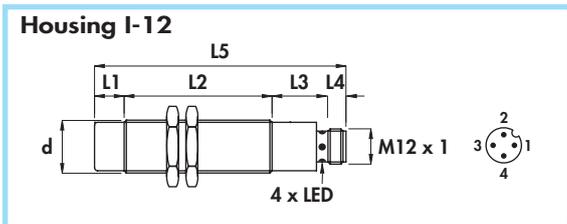
Housing	Flush mounting (*) Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Nominal sensing distance (S_n) $\pm 10\%$	ORDERING REFERENCES	
												PNP (positive switching)	
		mm	mm	mm	mm	mm	n°	mm	V (min - max)	Hz	mm		
I-11	•	-	40	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)



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



Diameter	M18 x 1	M30 x 1,5
Nut	Size	SW24
	Thkns mm	4
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_B): 200 mA
- No-load supply current (I_0): ≤ 10 mA
- Voltage drop (U_d): $\leq 1,5$ V
- Temperature range: $-20^\circ \div +70^\circ\text{C}$
- Max thermal drift of sensing distance S_r : $\pm 10\%$
- 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
- 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) $\pm 10\%$	ORDERING REFERENCES	
												PNP (positive switching)	
I-12	•	-	50	19	8	77	6-8B-10	M18 x 1	7 ÷ 40	300	10		
I-12	•	-	50	19	8	77	6-8B-10	M18 x 1	7 ÷ 40	300	10	DCAE18/4309KS	DCAE18/43C9KS
I-12	•	10	50	19	8	87	6-8B-10	M18 x 1	7 ÷ 40	200	14	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)

