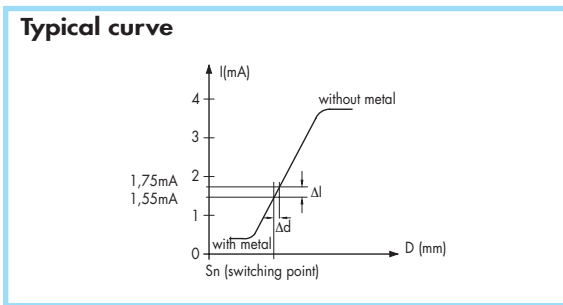
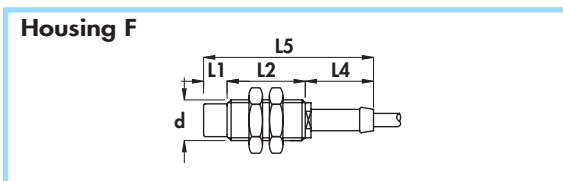
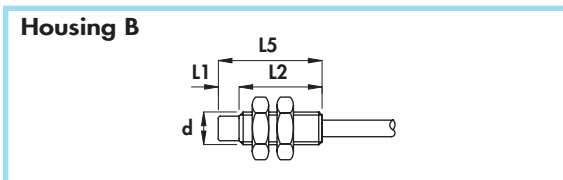
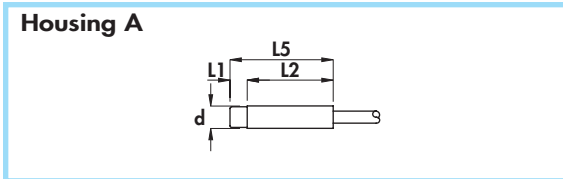




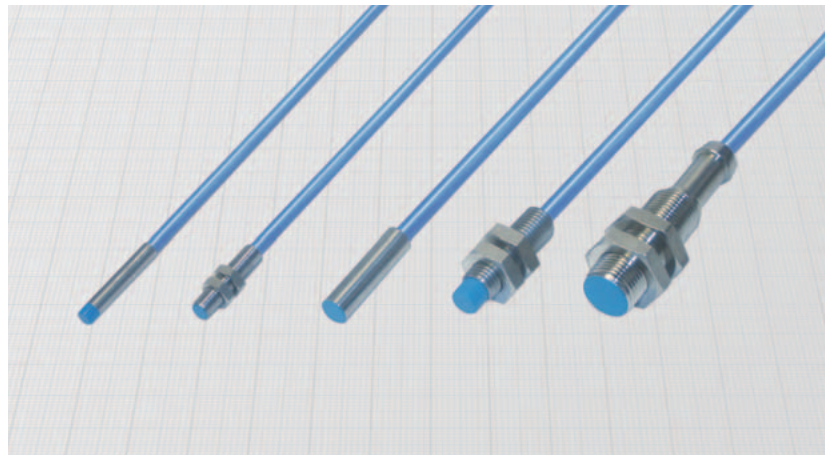
NAMUR SERIES diameters 4 - 5 - 6,5 - 8 - 12 mm •
ATEX certified II 1GD for zone 0;20 •
Cable output •



Diameter	M5 x 0,5	M8 x 1	M12 x 1
Nut	Size	SW7	SW13
	Thickness mm	2,5	4
Max tightening torque Nm	2	10	15

Materials:

- Cable: 2 m PVC CEI 20-22 II; 90°C; 300 V; O.R.
- Housing 4 - 5 - 6,5 - 8 mm diameter: stainless steel
- Housing 12 mm diameter: nickel plated brass
- Sensing face: plastic



Technical data:

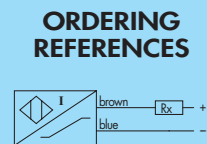
- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with Rx = 1000
 - with metal: ≤ 1 mA
 - without metal: ≥ 3 mA
- Temperature range: -20° ÷ + 60°C
- Max thermal drift of sensing distance S_i: ± 10%
- Repeat accuracy (R): 2%
- Degree protection: IP67
- Cable conductor cross section: 0,14 mm² on 4 and 5 mm; 0,35 mm² on 6,5 ÷ 12 mm
- Marking: II 1D IP67 T80°C; II 1G EEx ia IIC T6
- Certified CESI 03 ATEX 080
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

- Vi max: 13,5 V
- Ii max: 60 mA
- Ci max: 100 nF
- Li max: 100 μH
- Pi max: 200 mW

Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Nominal sensing distance (S _i) ± 10%	Max switching frequency (f)	ORDERING REFERENCES
		mm	mm	mm	mm	mm					
A	•	-	20	-	-	20	3	4	0,8	5	DC4/4600LA
B	•	-	20	-	-	20	3	M5 x 0,5	0,8	5	DC5/4700A
A	•	-	25	-	-	25	4	6,5	1,5	5	DC6,5/4700LA
A	•	5	20	-	-	25	4	6,5	2,5	3	DC6,5/5700LA
A	•	-	25	-	-	25	4	8	1,5	5	DC8/4700LA
B	•	-	25	-	-	25	4	M8 x 1	1,5	5	DC8/4700A
B	•	5	20	-	-	25	4	M8 x 1	2,5	3	DC8/5700A
B	•	-	30	-	-	30	4	M12 x 1	2	5	DC12/4600A
F	•	-	30	-	20	50	4	M12 x 1	2	5	DC12/4700A
B	•	7	23	-	-	30	4	M12 x 1	4	1	DC12/5600A
F	•	7	23	-	20	50	4	M12 x 1	4	1	DC12/5700A

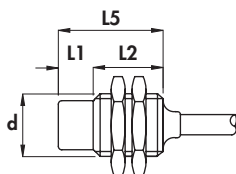


CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

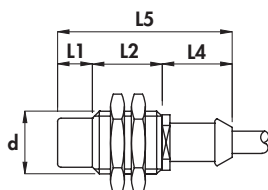
- **NAMUR SERIES** diameters 14 - 18 mm
- **ATEX certified II 1GD for zone 0;20**
- Cable output



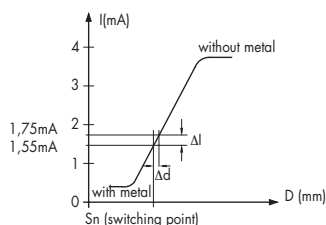
Housing B-1



Housing F-1



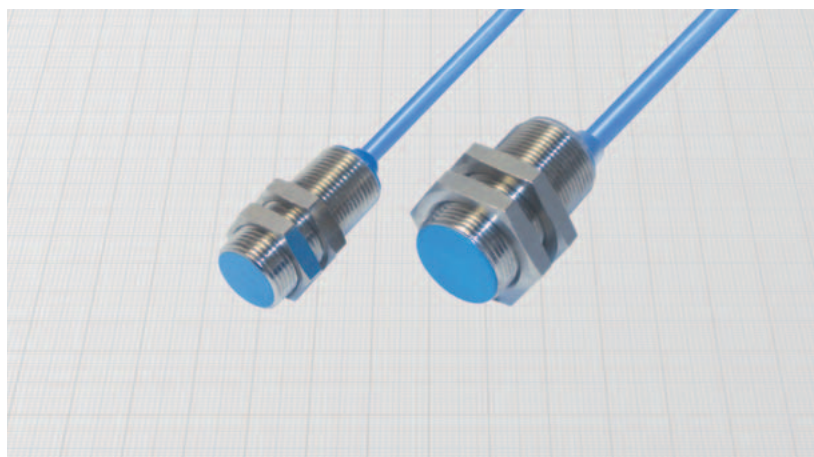
Typical curve



Diameter	M14 x 1	M18 x 1
Nut	Size	SW17
	Thickness mm	4
Max tightening torque Nm	20	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:

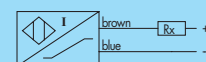
- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with Rx = 1000 Ω
 - with metal: ≤ 1 mA
 - without metal: ≥ 3 mA
- Temperature range: -20° ÷ +60°C
- Max thermal drift of sensing distance S_p: ± 10%
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section: 0,35 mm² on 14 mm, 0,75 mm² on 18 mm
- Marking: II 1D IP67 T80°C, II 1G EEx ia IIC T6
- Certified: CESI 03 ATEX 080
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

- Vi max: 13,5 V
- Ii max: 60 mA
- Ci max: 100 nF
- Li max: 100 µH
- Pi max: 200 mW

Use in hazardous area according to instruction manuals

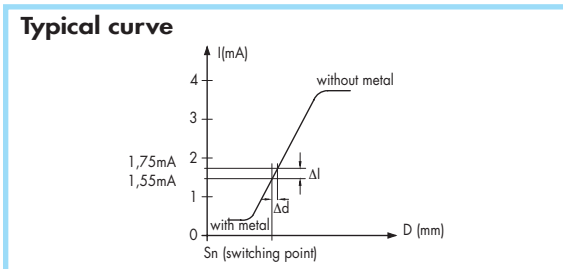
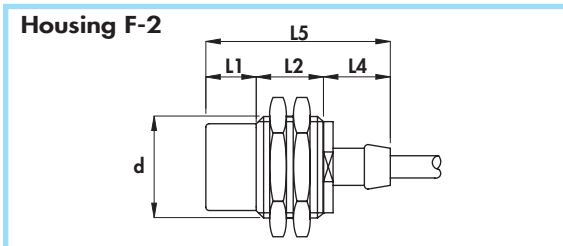
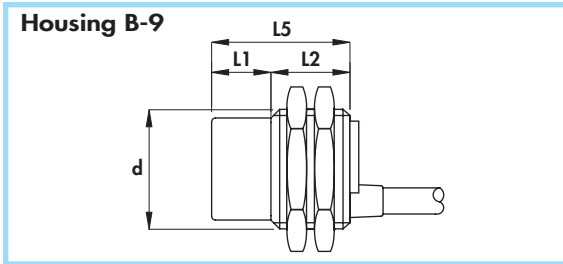
Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Nominal sensing distance (S _n) ± 10%	Max switching frequency (f)	ORDERING REFERENCES
		mm	mm	mm	mm	mm					
B-1	•	-	30	-	-	30	4	M14 x 1	3	2	DC14/4700A DC14/5700A
B-1	•	10	30	-	-	40	4	M14 x 1	5	1	
B-1	•	-	30	-	-	30	5	M18 x 1	5	1	DC18/4600A DC18/4700A
F-1	•	-	30	-	20	50	5	M18 x 1	5	1	
B-1	•	10	20	-	-	30	5	M18 x 1	8	0,5	DC18/5600A DC18/5700A
F-1	•	10	20	-	20	50	5	M18 x 1	8	0,5	



CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING



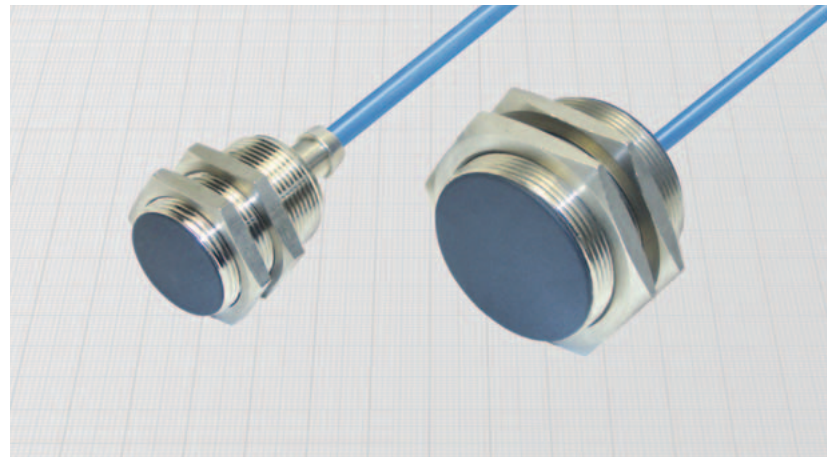
NAMUR SERIES diameters 28 - 30 - 45 mm •
ATEX certified II 1GD for zone 0;20 •
Cable output •



Diameter	M28 x 1,5	M30 x 1,5	M45 x 1,5
Nut	Size	SW32	SW36
	Thickness mm	4	5
Max tightening torque Nm	80	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 according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with Rx = 1000 Ω
 - with metal: ≤ 1 mA
 - without metal: ≥ 3 mA
- Temperature range: -20° ÷ +60°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section: 0,75 mm²
- Marking: II 1D IP67 T80°C II 1G EEx ia IIC T6
- Certified CESI 03 ATEX 080
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

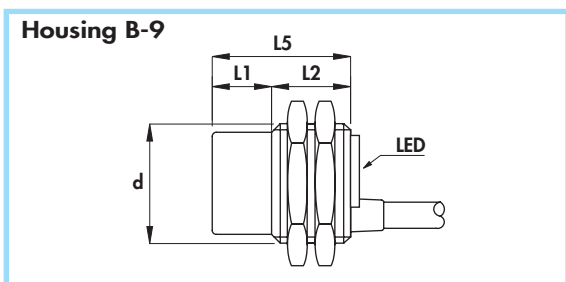
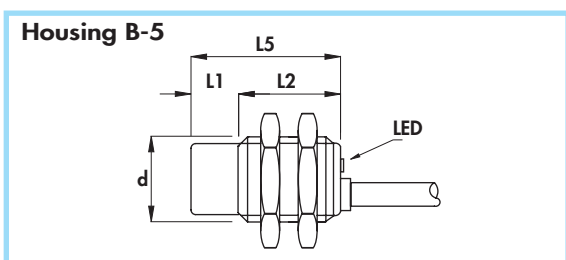
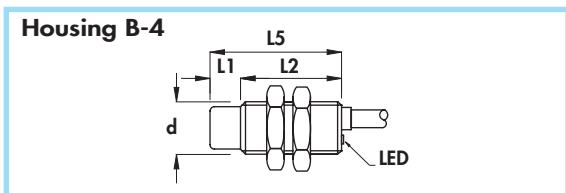
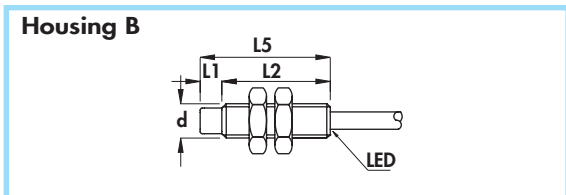
- Vi max: 13,5 V
- Ii max: 60 mA
- Ci max: 100 nF
- Li max: 100 μH
- Pi max: 200 mW

Use in hazardous area according to instruction manuals

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)	ORDERING REFERENCES
		mm	mm	mm	mm	mm					
B-9	•	-	35	-	-	35	5	M28 x 1,5	10	0,3	DC28/4700A DC28/5700A
B-9	•	10	25	-	-	35	5	M28 x 1,5	15	0,2	
B-9	•	-	35	-	-	35	5	M30 x 1,5	10	0,3	DC30/4600A DC30/4700A DC30/5600A DC30/5700A
F-2	•	-	35	-	20	55	5	M30 x 1,5	10	0,3	
B-9	•	15	20	-	-	35	5	M30 x 1,5	15	0,2	DC30/5600A DC30/5700A
F-2	•	15	20	-	20	55	5	M30 x 1,5	15	0,2	
B-9	•	-	35	-	-	35	5	M45 x 1,5	20	0,3	DC45/4700A

CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

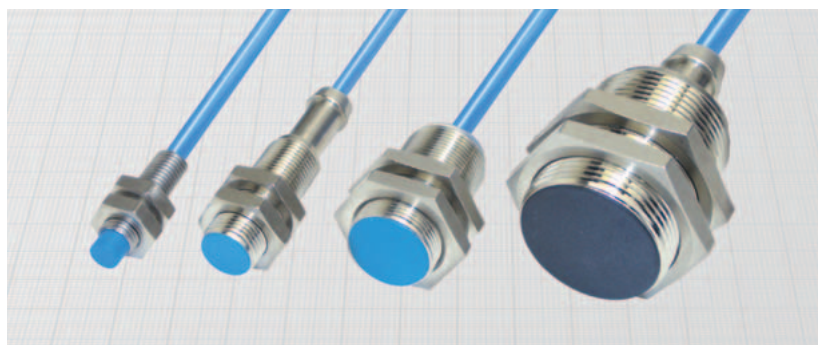
- **NAMUR SERIES with LED**
- **ATEX certified II 1GD for zone 0;20** 
- Cable output



Diameter	M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24
	Thickness mm	4	4	4
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





General Features:

With this new series of sensors it's possible to drive specific inputs for NAMUR sensors or inputs for 2 wires amplified switches with low current (up to 10 mA). The load can be applied on both terminals (function PNP or NPN). The output is internally triggered and monitored by LED.

Technical data:

- Working voltage: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Off-state current (I_o): ≤ 1 mA
- Minimum operational current (I_m): 2 mA
- Rated operational current (I_o): 10 mA
- Voltage drop (U_d) at 10 mA: < 6,5 V
- Voltage drop (U_d) at 8 mA: < 5 V
- Temperature range: - 20° ÷ +60°C
- Max thermal drift of sensing distance S_p: ± 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 8 and 12 mm, 0,75 mm² on 18 and 30 mm

- Marking:  II 1D IP67 T80°C, II 1G EEx ia IIC T6

- Certified CESI 03 ATEX 080
- Protected against short-circuit and overload (8mm not included)
- Protected against any wrong connection
- Electromagnetic compatibility (EMC) according to EN60947-5-2 
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

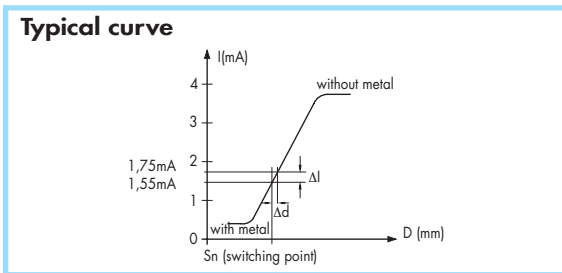
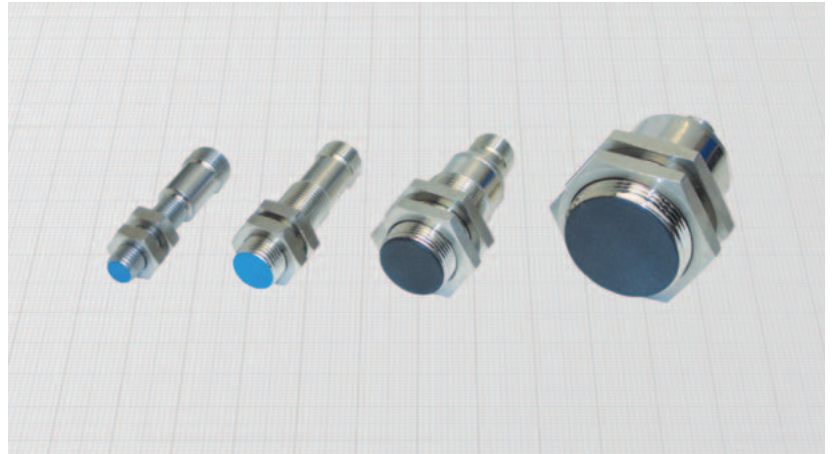
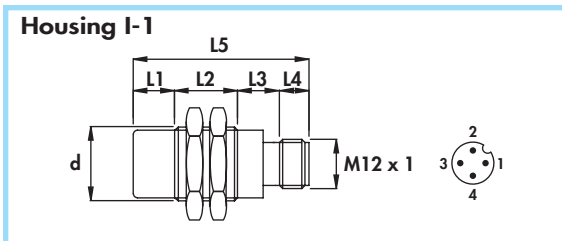
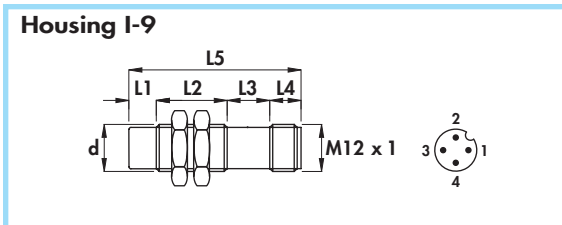
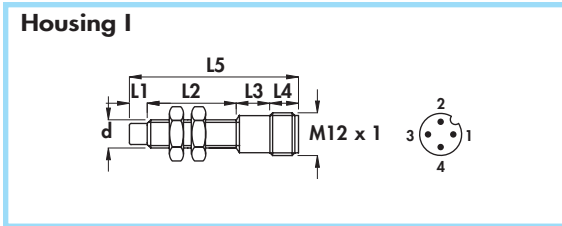
- V_i max: 13,5 V
- I_i max: 60 mA
- C_i max: 100 nF
- L_i max: 100 µH
- P_i max: 200 mW

Use in hazardous area according to instruction manuals

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)	ORDERING REFERENCES	
											mm	mm
B	•	-	30	-	-	30	4	M8 x 1	1,5	3	DC8/4600SA	DC8/4610SA
B	•	5	25	-	-	30	4	M8 x 1	2,5	2	DC8/5600SA	DC8/5610SA
B-4	•	-	30	-	-	30	4	M12 x 1	2	2	DC12/4600KSA	DC12/4610KSA
B-4	•	7	23	-	-	30	4	M12 x 1	4	1	DC12/5600KSA	DC12/5610KSA
B-5	•	-	30	-	-	30	5	M18 x 1	5	0,8	DC18/4600KSA	DC18/4610KSA
B-5	•	10	20	-	-	30	5	M18 x 1	8	0,6	DC18/5600KSA	DC18/5610KSA
B-9	•	-	35	-	-	35	5	M30 x 1,5	10	0,8	DC30/4600KSA	DC30/4610KSA
B-9	•	15	20	-	-	35	5	M30 x 1,5	15	0,4	DC30/5600KSA	DC30/5610KSA



NAMUR SERIES •
ATEX certified II 1GD for zone 0;20 •
 Connector output M12x1 •



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

Technical data:

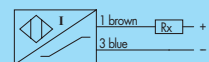
- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with Rx = 1000 Ω
 - with metal: ≤ 1 mA
 - without metal: ≥ 3 mA
- Temperature range: -20° ÷ +60°C
- Max thermal drift of sensing distance S_r: ± 10%
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Marking: II 1D IP67 T80°C
II 1G EEx ia IIC T6
- Certified CESI 03 ATEX 080
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

- V_i max: 13,5 V
- I_i max: 60 mA
- C_i max: 100 nF
- L_i max: 100 µH
- P_i max: 200 mW

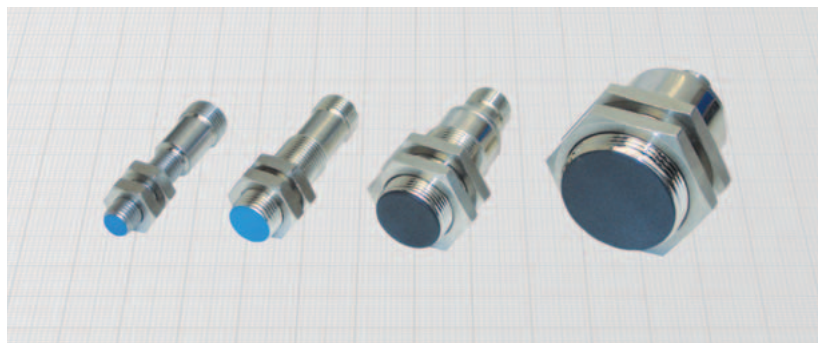
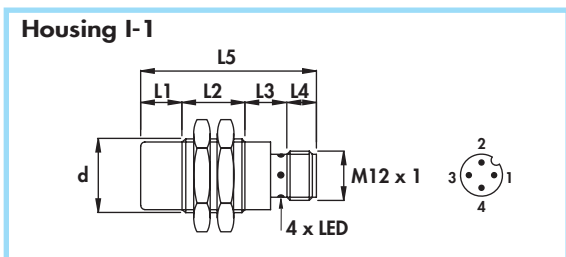
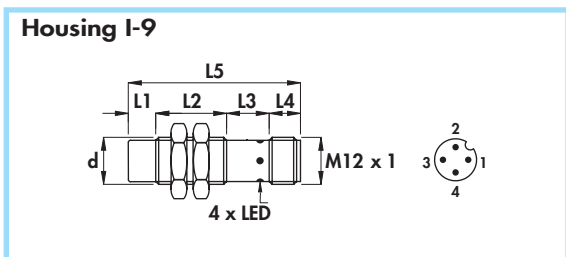
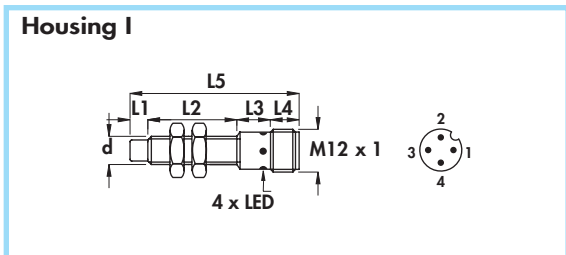
Use in hazardous area according to instruction manuals

Housing	Mounting Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector Atex	Body diameter (d)	Nominal sensing distance (S _r) ± 10%	Max switching frequency (f)	ORDERING REFERENCES
		mm	mm	mm	mm	mm					
I	•	-	26	13	8	47	8B-10	M8 x 1	1,5	4	DC8/4300A DC8/5300A
	•	5	21	13	8	47	8B-10	M8 x 1	2,5	3	
I-9	•	-	30	10	8	48	8B-10	M12 x 1	2	2	DC12/4300A DC12/5300A
	•	7	23	10	8	48	8B-10	M12 x 1	4	1	
I-1	•	-	25	15	8	48	8B-10	M18 x 1	5	0,8	DC18/4300A DC18/5300A
	•	10	15	15	8	48	8B-10	M18 x 1	8	0,6	
I-1	•	-	25	17	8	50	8B-10	M30 x 1,5	10	0,8	DC30/4300A DC30/5300A
	•	15	25	17	8	65	8B-10	M30 x 1,5	15	0,4	



CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

- **NAMUR SERIES with LED**
- **ATEX certified II 1GD for zone 0;20**
- Connector output M12 x 1



General Features:

With this new series of sensors it's possible to drive specific inputs for NAMUR sensors or inputs for 2 wires amplified switches with low current (up to 10 mA). The load can be applied on both terminals (function PNP or NPN). The output is internally triggered and monitored by LED.

Technical data:

- Working voltage: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Off-state current (I_o): ≤ 1 mA
- Minimum operational current (I_m): 2 mA
- Rated operational current (I_a): 10 mA
- Voltage drop (U_d) at 10 mA: < 6,5 V
- Voltage drop (U_d) at 8 mA: < 5 V
- Temperature range: -20° ÷ +60°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
- Marking: II 1D IP67 T80°C
II 1G EEx ia IIC T6

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

- Certified CESI 03 ATEX 080
- Protected against short-circuit and overload (8 mm not included)
- Protected against any wrong connection
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

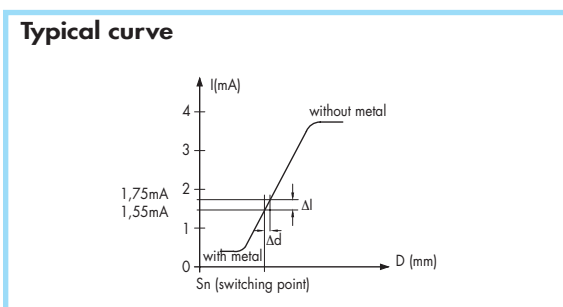
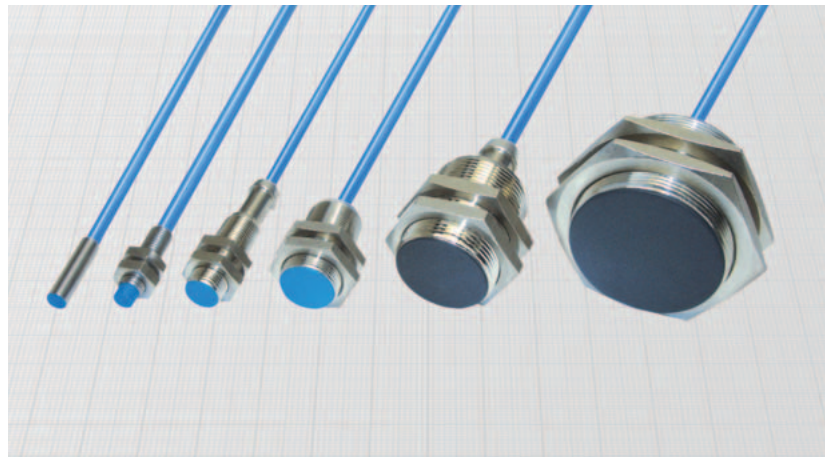
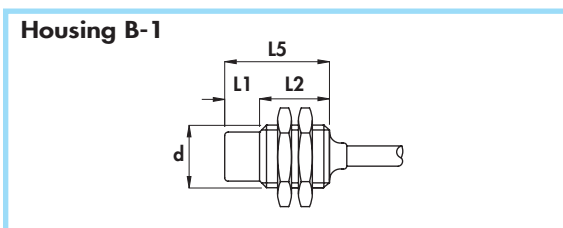
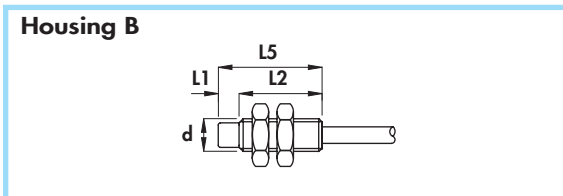
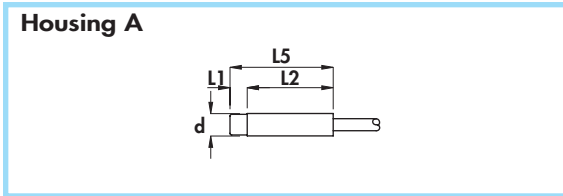
- V_i max: 13,5 V
- I_i max: 60 mA
- C_i max: 100 nF
- L_i max: 100 µH
- P_i max: 200 mW

Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector Atex	Body diameter (d)	Nominal sensing distance (S_n) ±10%	Max switching frequency (f)	ORDERING REFERENCES	
		mm	mm	mm	mm	mm						
I	•	-	26	13	8	47	8B-10	M8 x 1	1,5	3	DC8/4300SA	DC8/4310SA
I	•	5	21	13	8	47	8B-10	M8 x 1	2,5	2	DC8/5300SA	DC8/5310SA
I-9	•	-	30	10	8	48	8B-10	M12 x 1	2	2	DC12/4300KSA	DC12/4310KSA
I-9	•	7	23	10	8	48	8B-10	M12 x 1	4	1	DC12/5300KSA	DC12/5310KSA
I-1	•	-	25	16	8	49	8B-10	M18 x 1	5	0,8	DC18/4300KSA	DC18/4310KSA
I-1	•	10	15	16	8	49	8B-10	M18 x 1	8	0,6	DC18/5300KSA	DC18/5310KSA
I-1	•	-	25	17	8	50	8B-10	M30 x 1,5	10	0,8	DC30/4300KSA	DC30/4310KSA
I-1	•	15	25	17	8	65	8B-10	M30 x 1,5	15	0,4	DC30/5300KSA	DC30/5310KSA



**NAMUR SERIES for high temperatures (-20° ÷ + 110°C) •
ATEX certified II 1GD for zone 0;20 •
Cable output •**



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

Materials:

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

Technical data:

- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with Rx = 1000 Ω
 - with metal: ≤ 1 mA
 - without metal: ≥ 3 mA
- Temperature range: - 20° ÷ + 110°C
- Max thermal drift of sensing distance S_n: ± 10%
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section: 0,35 mm² on 6,5 ÷ 12 mm; 0,75 mm² on 18 ÷ 45 mm

Marking:



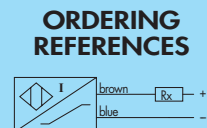
- Certified CESI 03 ATEX 080
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

- Vi max: 13,5 V
- Ii max: 60 mA
- Ci max: 100 nF
- Li max: 100 µH
- Pi max: 200 mW

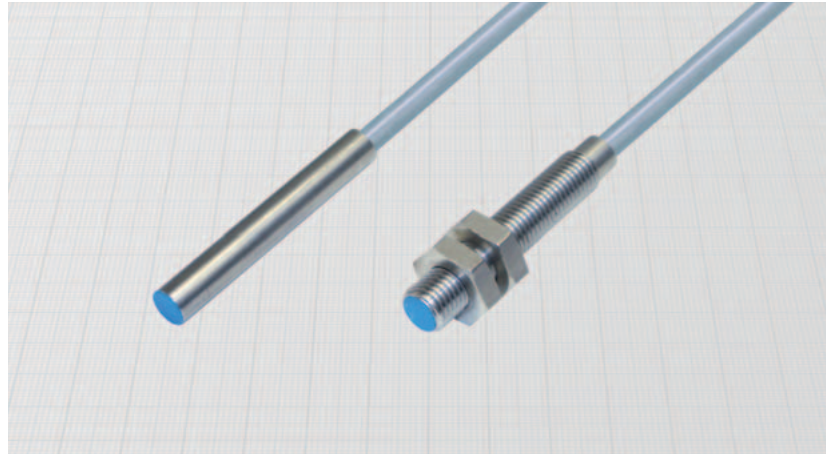
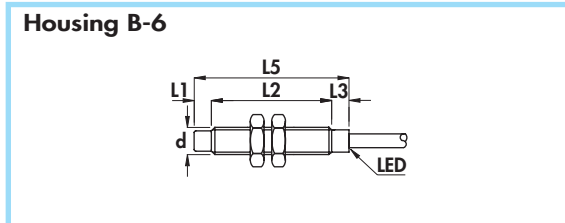
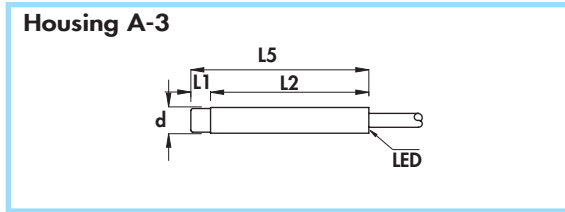
Use in hazardous area according to instruction manuals

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)	ORDERING REFERENCES
		mm	mm	mm	mm	mm					
A	•	-	25	-	-	25	4	6,5	1,5	5	DC6,5/4600LTA
B	•	-	25	-	-	25	4	M8 x 1	1,5	5	DC8/4600TA
B	•	-	30	-	-	30	4	M12 x 1	2	5	DC12/4600TA
B-1	•	-	30	-	-	30	5	M18 x 1	5	1	DC18/4600TA
B-1	•	-	35	-	-	35	5	M30 x 1,5	10	0,3	DC30/4600TA
B-1	•	-	35	-	-	35	5	M45 x 1,5	20	0,3	DC45/4600TA



CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

- **AMPLIFIED IN d.c. 3 and 4 wires** - diameters 6,5 - 8 mm 
- **ATEX certified II 3GD for zone 2;22**
- Cable output



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


Materials:

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

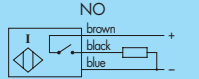
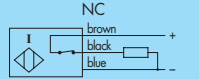
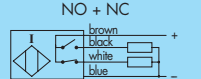
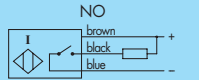
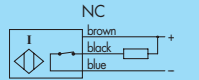
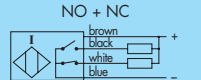
Technical data:

- Supply voltage (U_B): 7 ÷ 30 Vdc
- Max ripple: 10%
- No-load supply current (I_0): ≤ 10 mA
- Voltage drop (U_d): < 1,5 V
- Temperature range: - 20° ÷ + 60°C
- Max thermal drift of sensing distance S_s : ± 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

- Marking:  II 3D IP67 T80°C X
II 3G EEx nA IIC T6 X

- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2 
- According to: EN50014/EN60079-15/EN50281-1-1
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

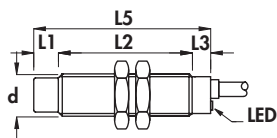
Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	L1	L2	L3	L5	Cable diameter	Body diameter (d)	Nominal sensing distance (S_n) ±10%	Max switching frequency (f)	Rated operational current (I_e)	ORDERING REFERENCES		
											mm	mm	mm
											PNP (positive switching)		
											NO 	NC 	NO + NC 
A - 3	•	-	45	-	45	3,5	6,5	1,5	4	100	DCA6,5/4609LKS3GD	DCA6,5/4619LKS3GD	DCA6,5/4629LKS3GD
A - 3	•	5	40	-	45	3,5	6,5	2,5	3	100	DCA6,5/5609LKS3GD	DCA6,5/5619LKS3GD	DCA6,5/5629LKS3GD
A - 3	•	-	45	-	45	3,5	8	1,5	4	100	DCA8/4609LKS3GD	DCA8/4619LKS3GD	DCA8/4629LKS3GD
B - 6	•	-	40	5	45	3,5	M8 x 1	1,5	4	100	DCA8/4609KS3GD	DCA8/4619KS3GD	DCA8/4629KS3GD
A - 3	•	5	40	-	45	3,5	8	2,5	3	100	DCA8/5609LKS3GD	DCA8/5619LKS3GD	DCA8/5629LKS3GD
B - 6	•	5	35	5	45	3,5	M8 x 1	2,5	3	100	DCA8/5609KS3GD	DCA8/5619KS3GD	DCA8/5629KS3GD
											NPN (negative switching)		
											Use the above mentioned part number changing the last number 9 with 8 (ie DCA6,5/4608KS3GD)		
											NO 	NC 	NO + NC 

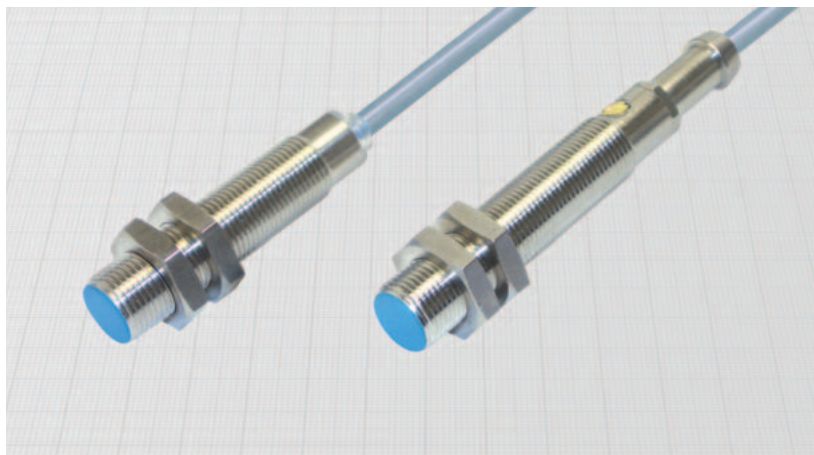
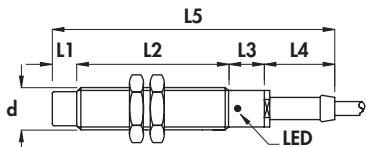


AMPLIFIED IN d.c. 3 wires - diameters 12 mm •
ATEX certified II 3GD for zone 2;22 •
Cable output •

Housing B-3



Housing D



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

Materials:

- Cable: 2 m PVC; 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_0): ≤ 10 mA
- Voltage drop (U_d): < 1,5 V
- Temperature range: -20° ÷ +60°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 versions
0,25 mm² on 4 wires versions

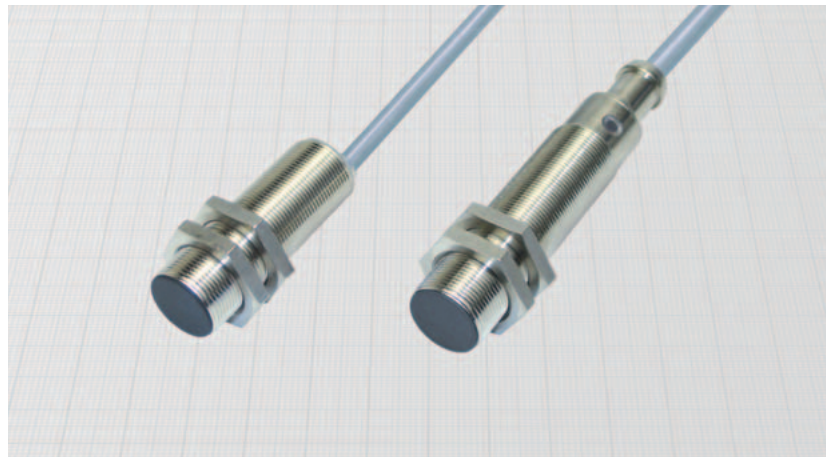
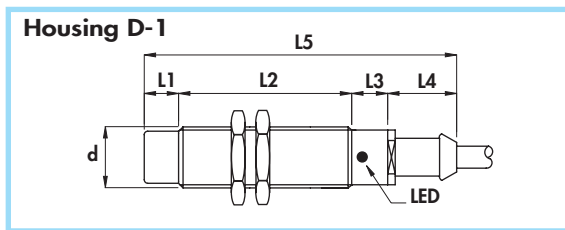
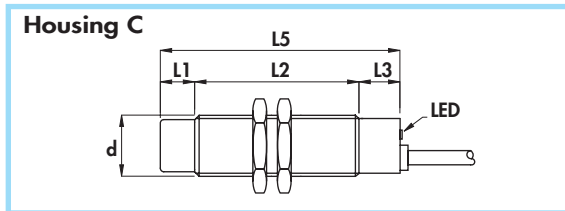
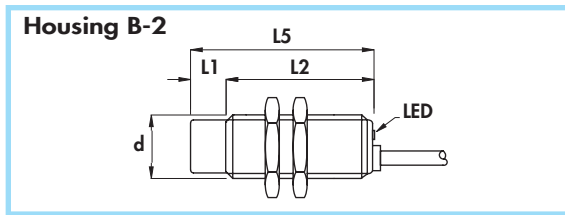
• Marking: II 3D IP67 T80°C X
II 3G EEx nA IIC T6 X

- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN50014/EN60079-15/EN50281-1-1
- 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		
												mm	mm	mm
B-3	•	-	43	7	-	50	4	M12 x 1	2	2	100	PNP (positive switching) 		
D	•	-	50	10	20	80	4	M12 x 1	2	2	100	DCA12/4609KS3GD	DCA12/4619KS3GD	DCA12/4629KS3GD
B-3	•	7	36	7	-	50	4	M12 x 1	4	1,5	100	DCA12/4709KS3GD	DCA12/4719KS3GD	DCA12/4729KS3GD
D	•	7	43	10	20	80	4	M12 x 1	4	1,5	100	DCA12/5609KS3GD	DCA12/5619KS3GD	DCA12/5629KS3GD
												NPN (negative switching) Use the above mentioned part number changing the last number 9 with 8 (ie DCA12/4608KS3GD) 		

CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

- **AMPLIFIED IN d.c. 3 wires - diameters 18 mm**
- **ATEX certified II 3GD for zone 2;22**
- Cable output



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

Materials:

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

Technical data:

- Supply voltage (U_B): 5 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_0): ≤ 10 mA
- Voltage drop (U_d): < 2,2 V
- Temperature range: - 20° ÷ + 60°C
- Max thermal drift of sensing distance S_p : ± 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 on 3 wires versions
0,35 mm² on 4 wires versions

- Marking: II 3D IP67 T80°C X
II 3G EEx nA IIC T6 X

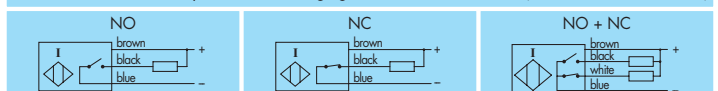
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN50014/EN60079-15/EN50281-1-1
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Use in hazardous area according to instruction manuals

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		
												mm	mm	mm
B - 2	•	-	50	-	-	50	5	M18 x 1	5	1	200	DCA18/4A09KS3GD	DCA18/4A19KS3GD	DCA18/4A29KS3GD
B - 2	•	10	40	-	-	50	5	M18 x 1	8	1	200	DCA18/5A09KS3GD	DCA18/5A19KS3GD	DCA18/5A29KS3GD
C	•	-	58	12	-	70	5	M18 x 1	5	1	200	DCA18/4609KS3GD	DCA18/4619KS3GD	DCA18/4629KS3GD
D - 1	•	-	60	12	20	92	6	M18 x 1	5	1	200	DCA18/4709KS3GD	DCA18/4719KS3GD	DCA18/4729KS3GD
C	•	10	48	12	-	70	5	M18 x 1	8	1	200	DCA18/5609KS3GD	DCA18/5619KS3GD	DCA18/5629KS3GD
D - 1	•	10	50	12	20	92	6	M18 x 1	8	1	200	DCA18/5709KS3GD	DCA18/5719KS3GD	DCA18/5729KS3GD

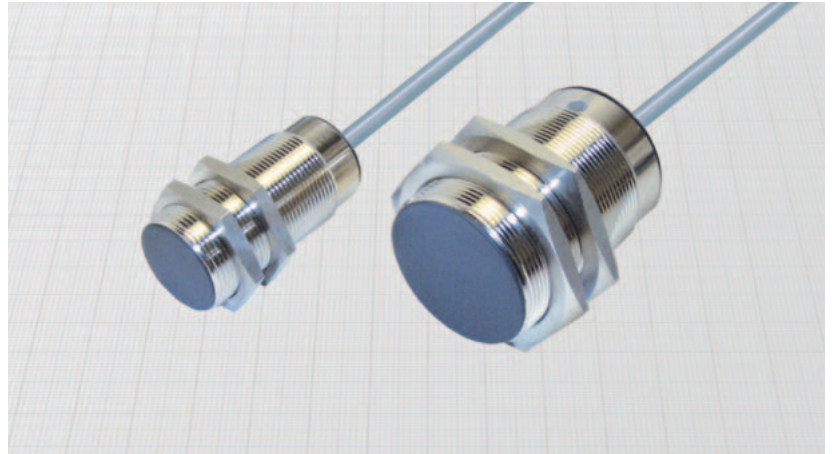
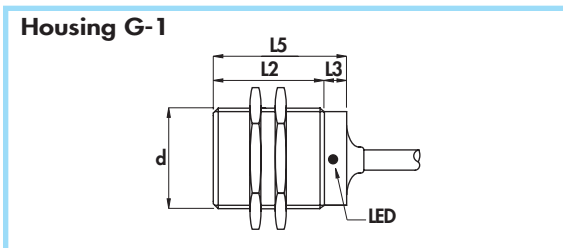
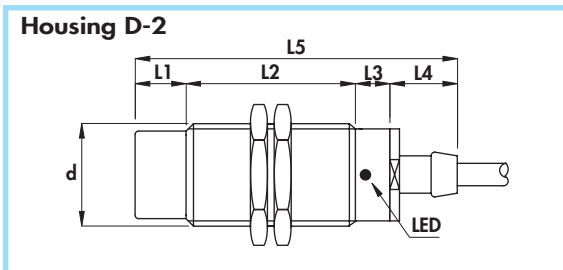
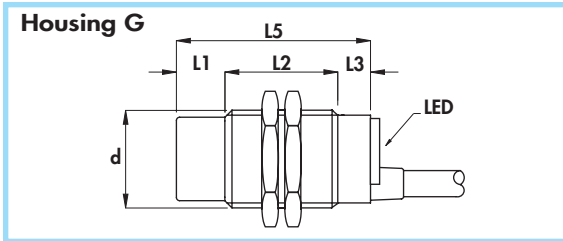
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie DCA18/4A08KS3GD)





AMPLIFIED IN d.c. 3 and 4 wires - diameters 30 - 45 mm •
ATEX certified II 3GD for zone 2;22 •
Cable output •



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

Materials:

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

Technical data:

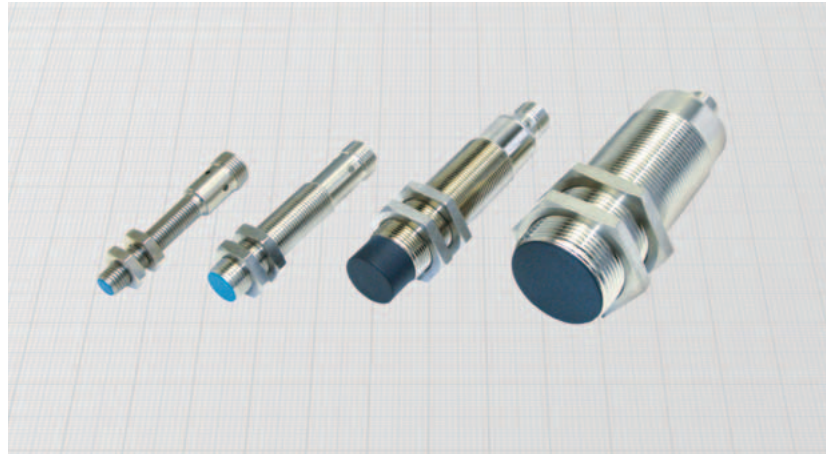
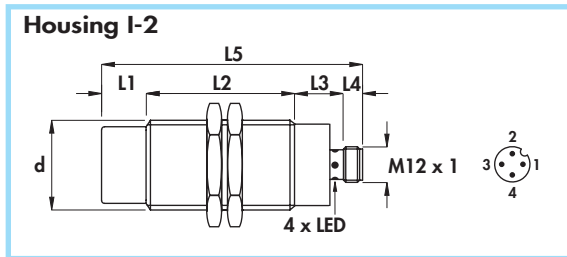
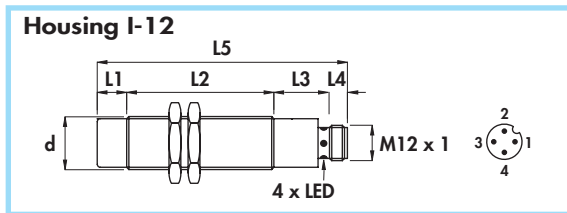
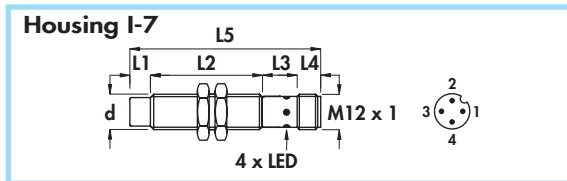
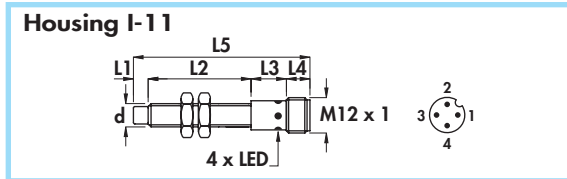
- Supply voltage (U_B): 7 ÷ 60 Vdc
- Max ripple: 10%
- No-load supply current (I_0): ≤ 10 mA
- Voltage drop (U_d): < 2,2 V
- Temperature range: -20° ÷ +60°C
- Max thermal drift of sensing distance S_r : ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,50 mm²
- Marking: II 3D IP67 T80°C X
II 3G EEx nA IIC T6 X
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN50014/EN60079-15/EN50281-1-1
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Use in hazardous area according to instruction manuals

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_o)	ORDERING REFERENCES		
												PNP (positive switching)		
												NO	NC	NO + NC
G	•	-	50	10	-	60	6	M30 x 1,5	10	0,8	200	DCA30/4609KS3GD	DCA30/4619KS3GD	DCA30/4629KS3GD
D-2	•	-	65	10	20	95	6	M30 x 1,5	10	0,8	200	DCA30/4709KS3GD	DCA30/4719KS3GD	DCA30/4729KS3GD
G	•	15	35	10	-	90	6	M30 x 1,5	15	0,4	200	DCA30/5609KS3GD	DCA30/5619KS3GD	DCA30/5629KS3GD
D-2	•	15	50	10	20	95	6	M30 x 1,5	15	0,4	200	DCA30/5709KS3GD	DCA30/5719KS3GD	DCA30/5729KS3GD
G-1	•	10	50	10	-	60	6	M45 x 1,5	20	0,15	200	DCA45/4609KS3GD	DCA45/4619KS3GD	DCA45/4629KS3GD
												NPN (negative switching)		
												Use the above mentioned part number changing the last number 9 with 8 (ie. DCA30/4608KS3GD)		

CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

- **AMPLIFIED IN d.c.**
- **ATEX certified II 3GD for zone 2;22**
- Connector output M12 x 1



Diameter	M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW13	SW17	SW24
	Thickness mm	4	4	4
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_B): 100 mA
- No-load supply current (I_0): ≤ 10 mA
- Voltage drop (U_d): $< 1,5$ V
- Temperature range: $-20^\circ \div +60^\circ\text{C}$
- Max thermal drift of sensing distance S_T : $\pm 10\%$
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Marking: II 3D IP67 T80°C X
II 3G EEx nA IIC T6 X

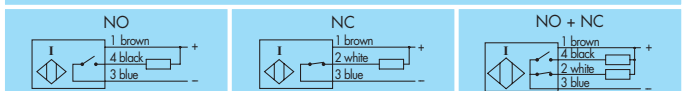
- Protected against short-circuit and overload
- Protected against any wrong connection
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN50014/EN60079-15/EN50281-1-1
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector ATEX	Body diameter (d)	Supply voltage (U_B)	Max switching frequency (f)	Nominal sensing distance (S_n) $\pm 10\%$	ORDERING REFERENCES		
												PNP (positive switching)		
I-11	•	-	40	12	8	60	C8B - C10	M8 x 1	7 ÷ 30	4	1,5	DCA8/4309KS3GD	DCA8/43C9KS3GD	DCA8/4329KS3GD
I-11	•	5	35	12	8	60	C8B - C10	M8 x 1	7 ÷ 30	3	2,5	DCA8/5309KS3GD	DCA8/53C9KS3GD	DCA8/5329KS3GD
I-7	•	-	43	15	8	66	C8B - C10	M12 x 1	5 ÷ 40	2	2	DCA12/4309KS3GD	DCA12/43C9KS3GD	DCA12/4329KS3GD
I-7	•	7	36	15	8	66	C8B - C10	M12 x 1	5 ÷ 40	1,5	4	DCA12/5309KS3GD	DCA12/53C9KS3GD	DCA12/5329KS3GD
I-12	•	-	50	19	8	77	C8B - C10	M18 x 1	5 ÷ 60	1	5	DCA18/4309KS3GD	DCA18/43C9KS3GD	DCA18/4329KS3GD
I-12	•	10	50	19	8	87	C8B - C10	M18 x 1	5 ÷ 60	1	8	DCA18/5309KS3GD	DCA18/53C9KS3GD	DCA18/5329KS3GD
I-2	•	-	65	17	8	90	C8B - C10	M30x1,5	7 ÷ 60	0,8	10	DCA30/4309KS3GD	DCA30/43C9KS3GD	DCA30/4329KS3GD
I-2	•	15	50	17	8	90	C8B - C10	M30x1,5	7 ÷ 60	0,4	15	DCA30/5309KS3GD	DCA30/53C9KS3GD	DCA30/5329KS3GD

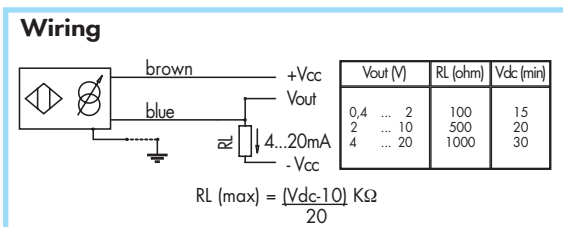
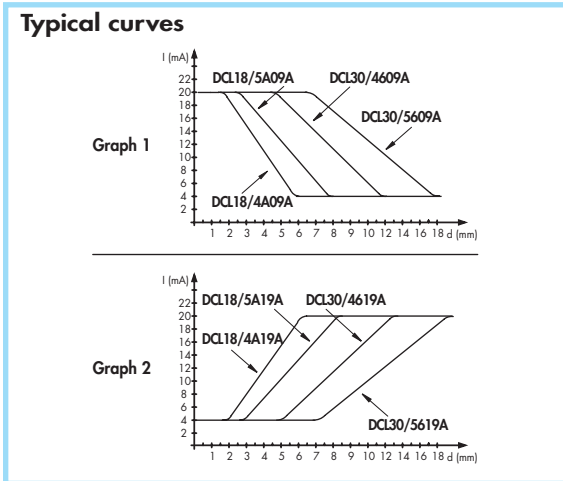
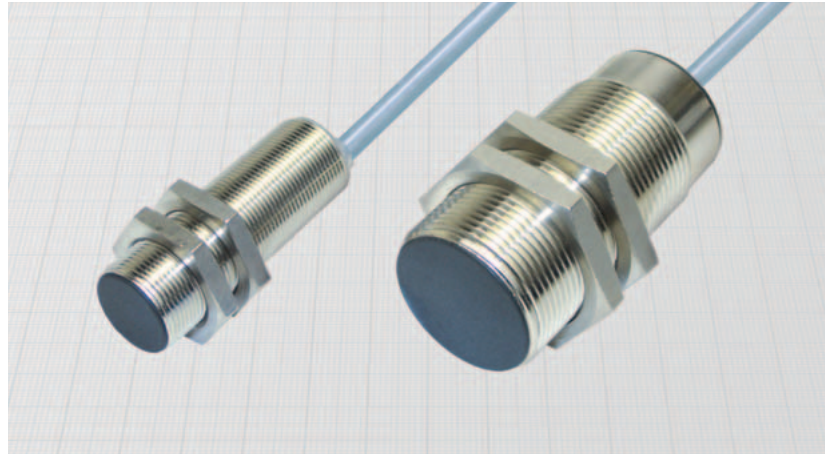
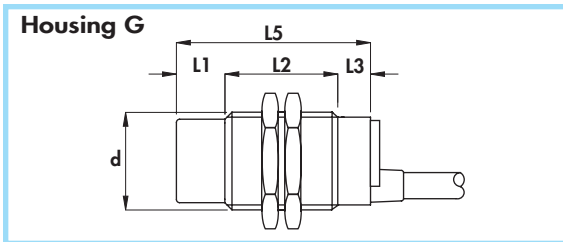
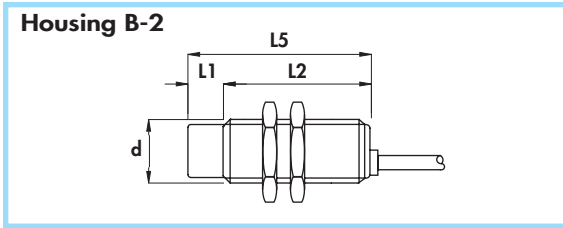
NPN (negative switching)

Use the above mentioned part number changing the last number 9 with 8 (ie DCA8/4308KS3GD)





ANALOG LINEAR OUTPUT 4 ÷ 20 mA •
ATEX certified II 1GD for zone 0;20 •
Cable output •



Diameter		M18 x 1	M30 x 1,5
Nut	Size	SW24	SW36
	Thickness mm	4	5
Max tightening torque Nm		35	50

Materials:

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

General Features:

These inductive proximity sensors provide an output current inversely or directly proportional to the distance between sensing face and metal target. The output current is dependent also on the target material. So the proximity sensors in addition to determining distance, displacements, vibrations and distortions can be used to recognize the composition of metal and alloys.

Employing the sensor:

The current flowing through the load RL, generates a variation in voltage across the resistor for a suitable value of RL, it is possible to obtain voltage variations from one tenth to 20 V as can be seen in the tables.

Technical data:

- Supply voltage: 10 ÷ 30 Vdc
- Max ripple: 20%
- Output current range: 4 ÷ 20 mA
- Temperature range: - 10° ÷ + 60°C
- Max thermal drift: < 10%
- Degree of protection: IP67
- Cable conductor cross section: 0,75 mm²
- Marking: II 1D IP67 T80°C
II 1G EEx ia IIC T6
- Certified CESI 03 ATEX 080
- Protected against short-circuit and overload
- Protected against any wrong connection
- Electromagnetic compatibility (EMC) according to EN61000-6-2
- According to: EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

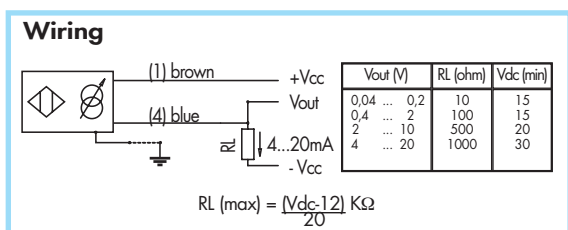
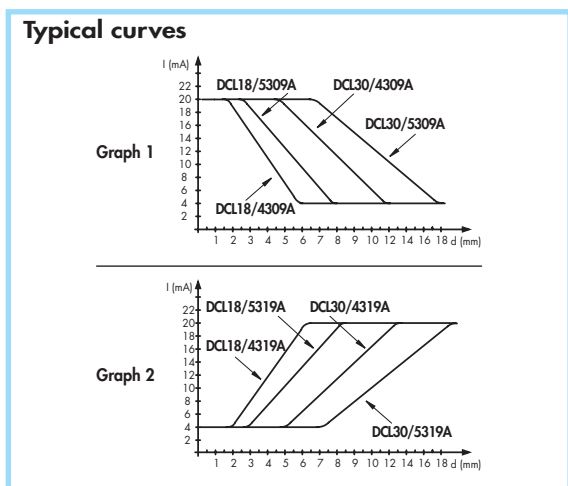
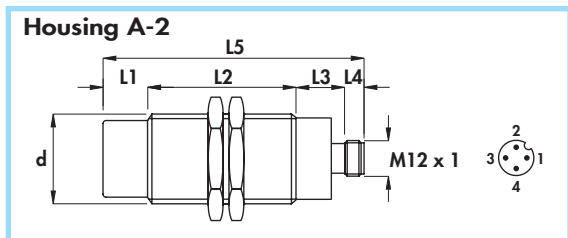
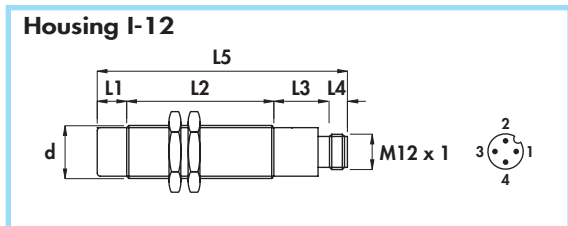
- Vi max: 30 V
- Ii max: 100 mA
- Ci max: 5 nF
- Li max: 750 µH
- Pi max: 660 mW

Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Maximum linearity error	No-load supply current	Max switching frequency (F)	Repeat accuracy (R)	Measure range	ORDERING REFERENCES	
														INVERSEL PROPORTIONAL Graph 1	DIRECTLY PROPORTIONAL Graph 2
														mm	mm
B-2	•	-	50	-	-	50	5	M18 x 1	3	4	250	0,5	2 ÷ 6	DCL18/4A09A	DCL18/4A19A
B-2	•	10	40	-	-	50	5	M18 x 1	3	4	250	0,5	3 ÷ 8	DCL18/5A09A	DCL18/5A19A
G	•	-	50	10	-	60	5	M30 x 1,5	5	4	250	0,5	5 ÷ 12	DCL30/4609A	DCL30/4619A
G	•	15	35	10	-	60	5	M30 x 1,5	5	4	250	0,5	7 ÷ 18	DCL30/5609A	DCL30/5619A

CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

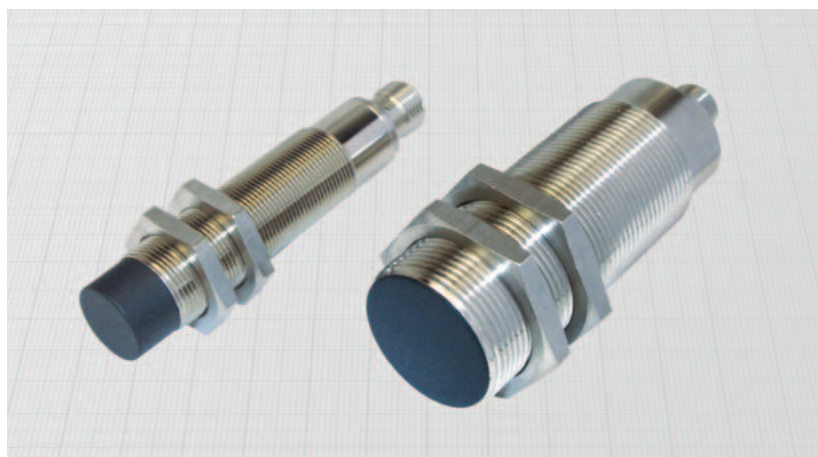
- ANALOG LINEAR OUTPUT $4 \div 20$ mA 
- ATEX certified II 1GD for zone 0;20
- Connector output



Diameter	M18 x 1	M30 x 1,5
Nut Size	SW24	SW36
Thickness mm	4	5
Max tightening torque Nm	35	50

Materials:

- Housing: nickel plated brass
- Sensing face: plastic



General Features:


These inductive proximity sensors provide an output current inversely or directly proportional to the distance between sensing face and metal target. The output current is dependent also on the target material. So the proximity sensors in addition to determining distance, displacements, vibrations and distortions can be used to recognize the composition of metal and alloys. It is recommended to use ATEX certified connectors type C8B/002...A or C10/002...A.

Employing the sensor:

The current flowing through the load RL, generates a variation in voltage across the resistor for a suitable value of RL, it is possible to obtain voltage variations from one tenth to 20 V as can be seen in the tables.

Technical data:

- Supply voltage: 15 ÷ 30 Vdc
- Max ripple: 20%
- Output current range: 4 ÷ 20 mA
- Temperature range: -10° ÷ +60°C
- Max thermal drift: < 10%
- Degree of protection: IP67
- Marking:  II 1D IP67 T80°C
II 1G EEx ia IIC T6

- Certified CESI 03 ATEX 080
- Protected against short-circuit and overload
- Protected against any wrong connection
- Electromagnetic compatibility (EMC) according to EN61000-6-2 
- According to: EN50014/EN50020/EN50281-1-1/EN50284
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Safety parameters:

- Vi max: 30 V
- Ii max: 100 mA
- Ci max: 5 nF
- Li max: 750 μ H
- Pi max: 660 mW

Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector ATEX	Body diameter (d)	Maximum linearity error	No-load supply current	Max switching frequency (F)	Repeat accuracy (R)	Measure range	ORDERING REFERENCES	
														INVERSELY PROPORTIONAL Graph 1	DIRECTLY PROPORTIONAL Graph 2
I-12	•	-	50	14	10	74	8B-10	M18 x 1	3	4	250	0,5	2 ÷ 6	DCL18/4309A	DCL18/4319A
I-12	•	10	50	14	10	84	8B-10	M18 x 1	3	4	250	0,5	3 ÷ 8	DCL18/5309A	DCL18/5319A
A-2	•	-	65	15	8	88	8B-10	M30 x 1,5	5	4	250	0,5	5 ÷ 12	DCL30/4309A	DCL30/4319A
A-2	•	15	50	15	8	88	8B-10	M30 x 1,5	5	4	250	0,5	7 ÷ 18	DCL30/5309A	DCL30/5319A