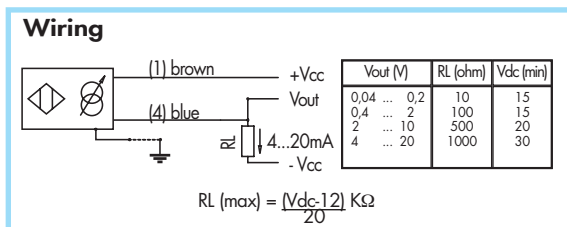
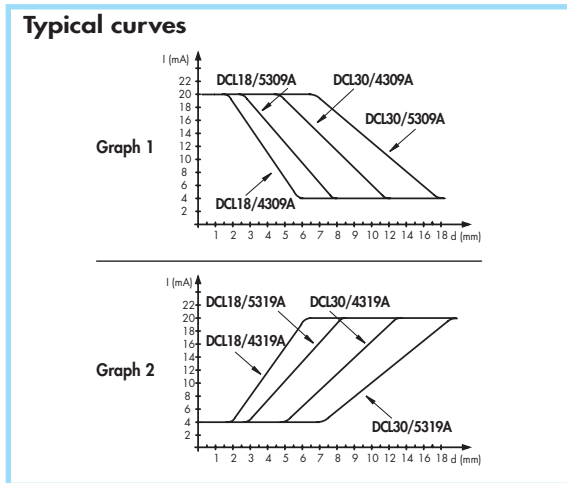
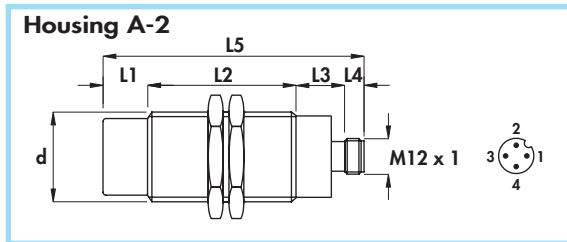
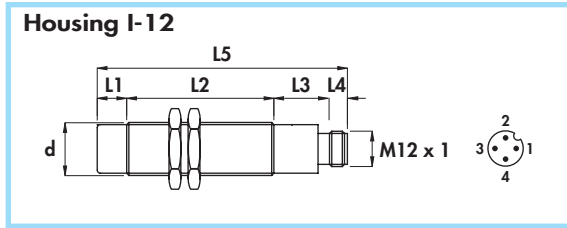


CYLINDRICAL INDUCTIVE ATEX SENSORS IN METAL HOUSING

- 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 R_L , generates a variation in voltage across the resistor for a suitable value of R_L , 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 µH
- 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
														mm	mm
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