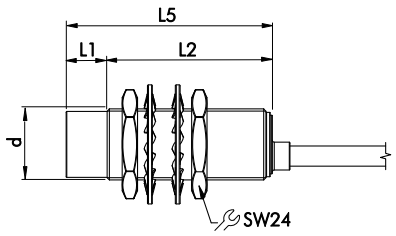
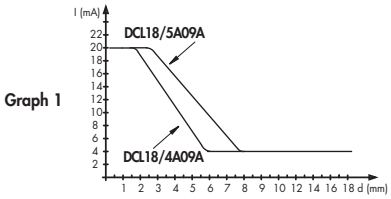
ANALOGUE LINEAR OUTPUT 4 ÷ 20 mA

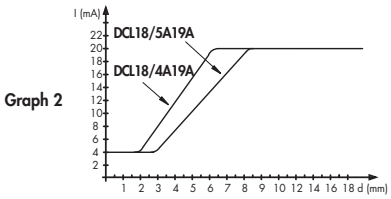
- ATEX certified II 1G;1D for zone 0;20
- Diameter 18mm; Cable output

Housing B-2

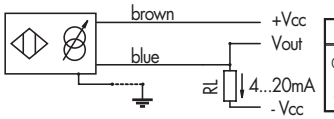


Typical curves





Connections



Vout (V)	RL (ohm)	Vdc (min)
0,4 ... 2	100	15
2 ... 10	500	20
4 ... 20	1000	30

$$RL\ (max) = \frac{(Vdc-12)}{20}\ K\Omega$$

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

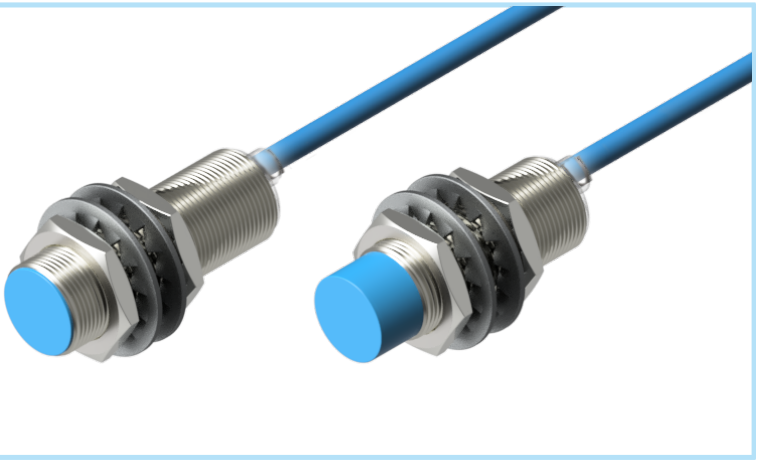
Materials:

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

Notes:

- Different cable lengths must be specified before the final letter A. Ex. DCL18/4A09A-5 for 5m of cable

- Special versions that do not impact the product certification can be made. In these cases the letter V followed by a number is added at the end of the code . Ex. DCL18/4A09A-V1



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.

Use of 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° ÷ + 70°C
- Max thermal drift: < 10%
- Degree of protection: IP67
- Cable conductor cross section: 0,75 mm²
- Marking: Ⓔx II 1 G Ex ia IIC T6...T4 Ga
  II 1 D Ex ia IIIC T_{200}80°C...T_{200}135°C Da
- Certified IMQ 08 ATEX 010X; IECEx IMQ 22.0011 X
- Protected against short-circuit and overload
- Reverse polarity protection
- Electromagnetic compatibility (EMC) according to EN IEC 60947-5-2
- According to: EN60947-5-7/EN IEC 60079-0/EN60079-11
- Shock and vibration resistance according to EN60068-2-27/EN60068-2-6

Safety parameters:

- Vi max: 30 V
- Ii max: 100 mA
- Ci max: 10 nF
- Li max: 50 µH
- Pi max: 660 mW

These sensors must be used in conjunction with associated apparatus (See Sect. E)

Use in hazardous area according to instruction manuals

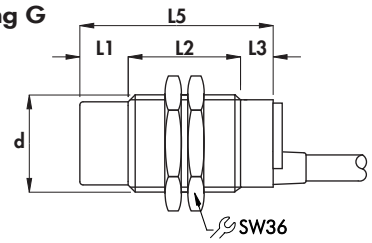
Housing	Flush mounting / Non flush mounting	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Maximum linearity error	No-load supply current	Max switching frequency (f)	Repeat accuracy (R)	Measurement range	ORDERING REFERENCES	
														INVERSELY PROPORTIONAL Graph 1	DIRECTLY PROPORTIONAL Graph 2
		mm	mm	mm	mm	mm	mm	mm	%	mA	Hz	%	mm		
B - 2	•	-	50	-	-	50	5	M18x1	3	4	250	0,5	2 ÷ 6	**DCL18/4A09A**	**DCL18/4A19A**
B - 2	•	10	40	-	-	50	5	M18x1	3	4	250	0,5	3 ÷ 8	**DCL18/5A09A**	**DCL18/5A19A**

DS22122025RD

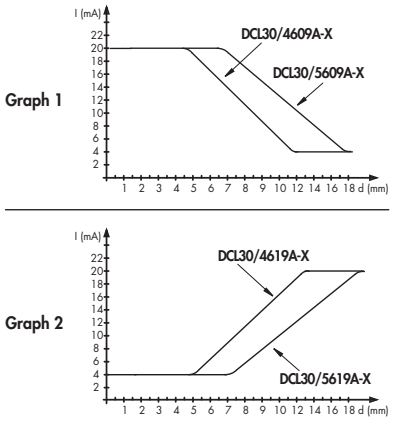
ANALOGUE LINEAR OUTPUT 4 ÷ 20 mA

- ATEX certified II 1G;1D for zone 0;20
- Diameter 30mm; Cable output

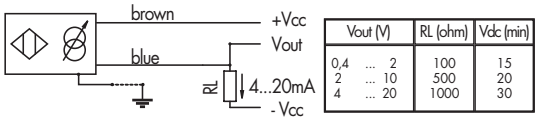
Housing G



Typical curves



Connections



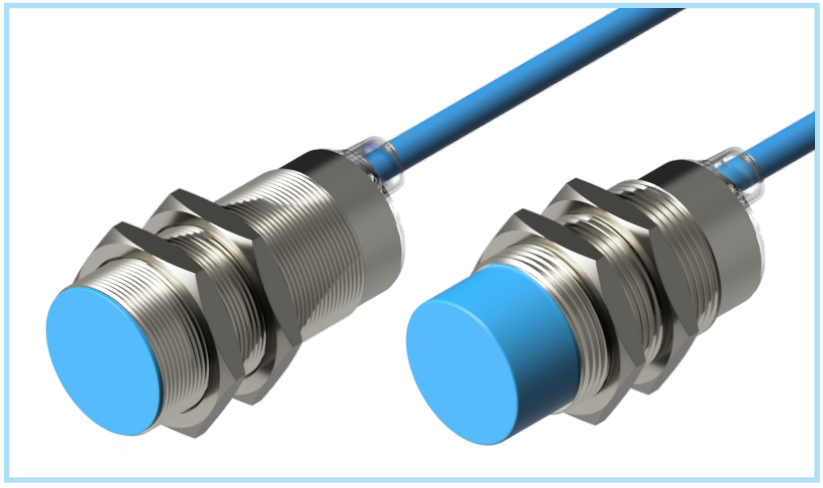
Vout (V)	RL (ohm)	Vdc (min)
0,4 ... 2	100	15
2 ... 10	500	20
4 ... 20	1000	30

$$RL\ (max) = \frac{(Vdc-12)}{20}\ K\Omega$$

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

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- Housing,nuts: 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.

Use of the sensor:

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Technical data:

- Supply voltage: 15 ÷ 30 Vdc
- Max ripple: 20%
- Output current range: 4 ÷ 20 mA
- Temperature range: - 10° ÷ + 70°C
- Max thermal drift: < 10%
- Degree of protection: IP67
- Cable conductor cross section: 0,75 mm²
- Marking: Ⓔx II 1 G Ex ia IIC T6...T4 Ga
  II 1 D Ex ia IIIC T_{200}80°C...T_{200}135°C Da
- Certified IMQ 08 ATEX 011X; IECEx IMQ 22.0011 X
- Protected against short-circuit and overload
- Reverse polarity protection
- Electromagnetic compatibility (EMC) according to EN IEC 60947-5-2
- According to: EN60947-5-7/EN IEC 60079-0/EN60079-11
- Shock and vibration resistance according to EN60068-2-27/EN60068-2-6

Safety parameters:

- Vi max: 30 V
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These sensors must be used in conjunction with associated apparatus (See Sect. E)

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)	Measurement range	ORDERING REFERENCES: INVERSELY PROPORTIONAL Graph 1	ORDERING REFERENCES: DIRECTLY PROPORTIONAL Graph 2
		mm	mm	mm	mm	mm	mm	mm	%	mA	Hz	%	mm		
G	•	-	50	10	-	60	5	M30 x 1,5	5	4	250	0,5	5 ÷ 12	**DCL30/4609A-X**	**DCL30/4619A-X**
G	•	15	35	10	-	60	5	M30 x 1,5	5	4	250	0,5	7 ÷ 18	**DCL30/5609A-X**	**DCL30/5619A-X**

DS22122025RD