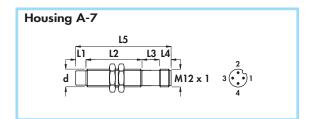
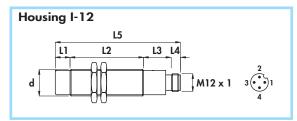
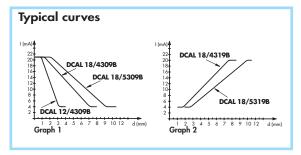
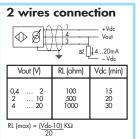
- Diameters 12 18 mm •
- Analog with linear current output
 - Connector output M12 x 1 •









3 wires connection											
	1 2										
Vout (V)	RL (ohm)	Vdc (min)									
0 1 0 10 0 16 0 20 0 30	62,5 11 625 15 1000 21 1250 25 1875 35										
RL (max) = $(\underline{Vdc.5})$ K Ω											

Diamet	er	M12 x 1	M18 x 1		
Nut	Size	SW17	SW24		
1401	Thickness mm	4	4		
Max tig	htening Nm	15	35		

Materials:

Housing:

Sensing face:

nickel plated brass plastic



General Features:

These inductive proximity sensors provide an output current directly or reversely proportional to the distance between the sensing face and the metal target. The output current is also dependent by the material of the target, so they can be used not only to detect distances, displacements, vibrations and wavings but also to recognize the composition of metals and alloys. In the two wires configuration, they are reversal polarity and short circuit protected devices compliant to the 4-20 mÅ industrial standard.

It is recommended the use of connectors without LED.

For applications subjected to high levels of electromagnetic interferences, it is recommended the use of the straight connector with shielded cable type C10/00...VS which offers a 360° shielding.

Use of the sensor:

The output current flows through the external load RL generating a voltage (V_o) used to drive the input stage of the measuring instrument. The correct value of RL can be chosed accordingly to the values of power supply Vdc and the wanted Vout range as reported on the tables.

Technical data: Supply voltage:

Max ripple:

Output current range:

Temperature range:

Max thermal drift:

Degree of protection:

Electromagnetic compatibility (EMC) according to EN61000-6-2/-4

Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

	guis	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female	Body diameter (d)	Max switching frequency (f)	curacy	Maximum linearity error	load supple	ure range		ERING ENCES
Hous	Housing							<u> </u>	<u></u>	Max	~ 8	<u>li</u> nec	2	Measure	inversely Proportional	DIRECTLY PROPORTIONAL
			mm	mm	mm	mm	mm	n°	mm	Hz	%	%	mA	mm	Graph 1	Graph 2
	A-7	•	-	43	15	8	66	6 - 8B - 10	M12 x 1	250	0,5	5	4	1 ÷ 4	DCAL12/4309B	-
	I - 12 I - 12	•	10	50 50	14 14	10 10	74 84	6 - 8B - 10 6 - 8B - 10	M18 x 1 M18 x 1	250 250	0,5 0,5	3 3	4 4	2 ÷ 7 3 ÷ 9	DCAL18/4309B DCAL18/5309B	DCAL18/4319B DCAL18/5319B

10 ÷ 40 Vdc

 $-10^{\circ} \div + 70^{\circ}C$

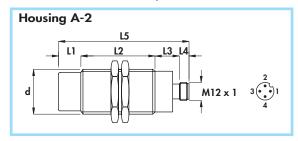
 $0 \div 16 \text{ mA} \text{ or } 4 \div 20 \text{ mA}$

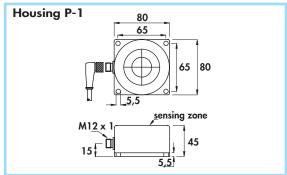
20%

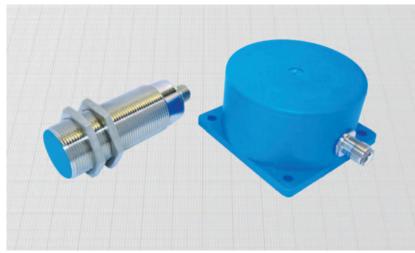
< 10% IP67

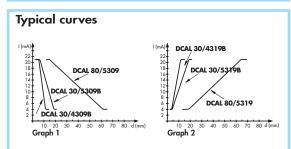
CYLINDRICAL INDUCTIVE SENSORS IN METAL HOUSING

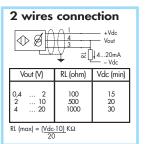
- Diameters 30 80 mm
- Analog with linear current output
- Connector output M12 x 1

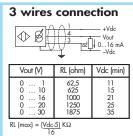












Diamet	er	M30 x 1,5
Nut	Size	SW36
1401	Thickness mm	5
Max tig	ghtening Nm	80

Materials:

- Housing 30 mm:
- Housing 80 mm:

Sensing face:

nickel plated brass plastic plastic

General Features:

These inductive proximity sensors provide an output current directly or reversely proportional to the distance between the sensing face and the metal target. The output current is also dependent by the material of the target, so they can be used not only to detect distances, displacements, vibrations and wavings but also to recognize the composition of metals and alloys. In the two wires configuration, they are reversal polarity and short circuit protected devices compliant to the 4-20 mÅ industrial standard.

It is recommended the use of connectors without LED.

For applications subjected to high levels of electromagnetic interferences, it is recommended the use of the straight connector with shielded cable type C10/00...VS which offers a 360° shielding.

Use of the sensor:

The output current flows through the external load RL generating a voltage (V_o) used to drive the input stage of the measuring instrument. The correct value of RL can be chosed accordingly to the values of power supply Vdc and the wanted Vout range as reported on the tables.

> 10 ÷ 40 Vdc 20%

> > < 10%

IP67

 $-10^{\circ} \div + 70^{\circ}C$

 $0 \div 16 \text{ mA}$ or $4 \div 20 \text{ mA}$

Technical data:

Supply voltage:

Max ripple:

Output current range:

Temperature range:

Max thermal drift:

Degree of protection:

Electromagnetic compatibility (EMC) according to EN61000-6-2/-4

Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	D S	Flush mounting Non flush mounting	Ilush mounting	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L2	L3	L4	L5	Female	Body diameter (d)	Max switching frequency (f)	Repeat	Maximum linearity error	load supply current	Measure range		RING ENCES
	2	Flush mo on flush						<u>т</u> 8	<u></u>	Max frequ	2 8	linec	<u>9</u> 8	Meas	INVERSELY PROPORTIONAL	DIRECTLY PROPORTIONAL																		
		Ž	mm	mm	mm	mm	mm	n°	mm	Hz	%	%	mA	mm	Graph 1	Graph 2																		
A -	2	•	- 15	65 50	15 15	8 8	88 88	6 - 8B - 10 6 - 8B - 10	M30 x 1,5 M30 x 1,5	250 250	0,5 0,5	5 5	4 4	4 ÷ 12 5 ÷ 18	DCAL30/4309B DCAL30/5309B	DCAL30/4319B DCAL30/5319B																		
P-	1	•	-	-	-	-	-	6 - 8B - 10	80	250	0,5	5	4	20 ÷ 60	DCAL80/5309	DCAL80/5319																		