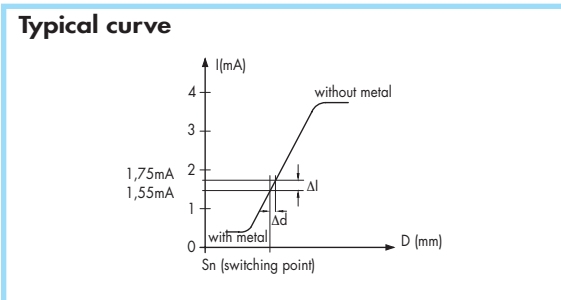
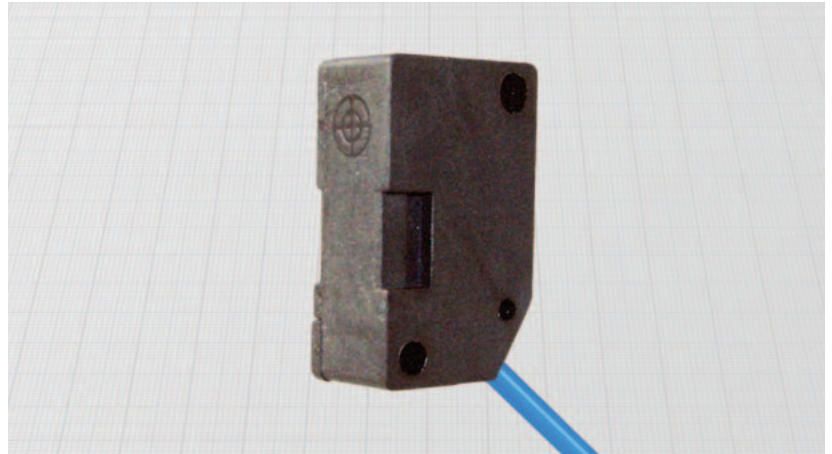
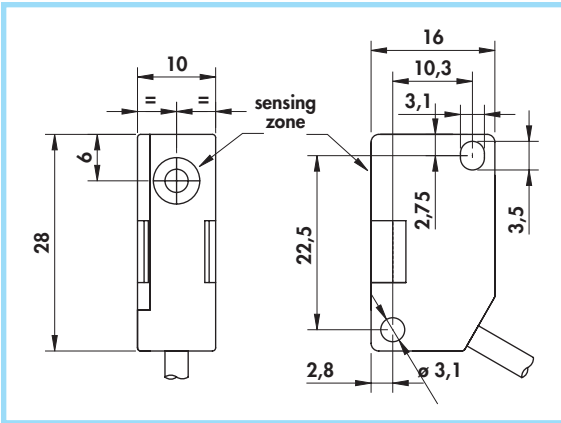




**NAMUR SERIES - Type Z** •  
**ATEX certified II 1GD for zone 0;20** •  
 Cable output •



**Materials:**

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

**General Features:**

This sensor has the same shape and holes position as a type V3 microswitch. The cable position allows the mounting on every side of the housing. The special material of the housing allows the use without additional protections against electrostatic charges.

**Technical data:**


- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with  $R_x = 1000 \Omega$ 
  - with metal:  $\leq 1 \text{ mA}$
  - without metal:  $\geq 3 \text{ mA}$
- Temperature range:  $-20^\circ \div +60^\circ \text{C}$
- Max thermal drift of sensing distance  $S_n$ :  $\pm 10\%$
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section: 0,15 mm<sup>2</sup>
- Marking:  $\text{Ex}$  II 1D IP67 T80°C II 1G EEx ia IIC T6

- Certified CESI 03 ATEX 080
- Electromagnetic compatibility (EMC) according to EN60947-5-2  $\text{CE}$
- 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:**

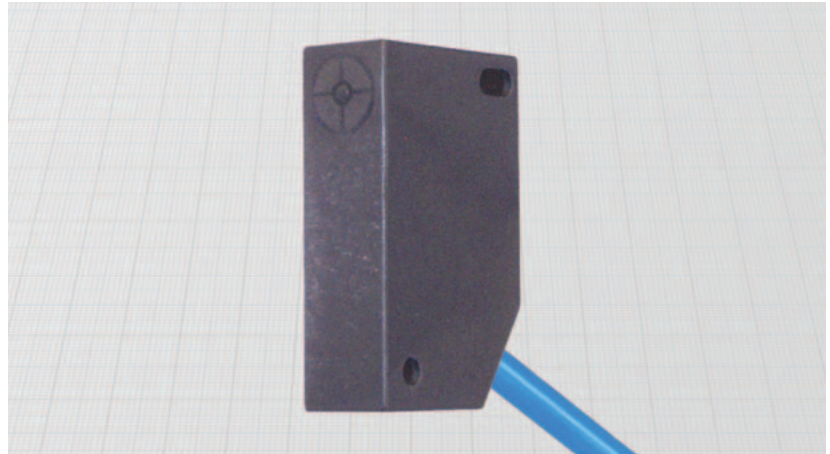
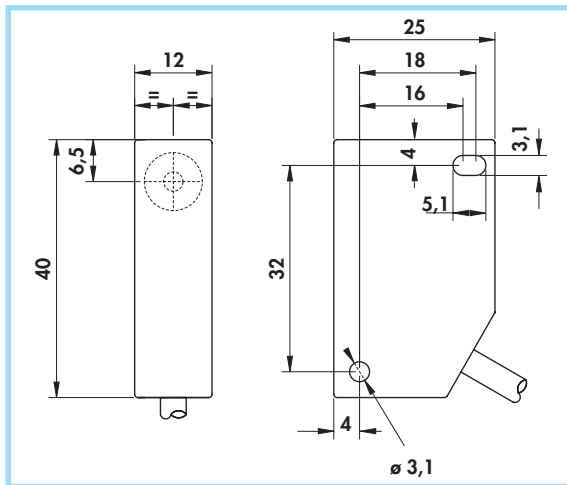
- $V_i$  max: 13,5 V
- $I_i$  max: 60 mA
- $C_i$  max: 100 nF
- $L_i$  max: 100  $\mu\text{H}$
- $P_i$  max: 200 mW

Use in hazardous area according to instruction manuals

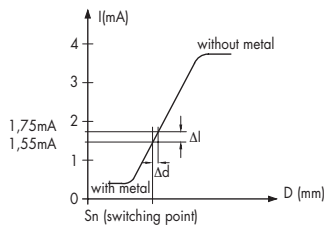
Flush mounting Non flush mounting	Cable diameter	Sensing zone diameter	Nominal sensing distance ( $S_n$ ) $\pm 10\%$	Max switching frequency (f)	ORDERING REFERENCES 
	mm	mm	mm	KHz	
•	3	9	2	1	<b>DCZ/4600A</b>
•	3	9	4	0,8	<b>DCZ/5600A</b>

## RECTANGULAR INDUCTIVE ATEX SENSORS

- NAMUR SERIES - Type T
- ATEX certified II 1GD for zone 0;20
- Cable output



### Typical curve



### Materials:

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

### General Features:

In this type of housing the cable position allows the mounting on every side of the housing. The special material of the housing allows the use without additional protections against electrostatic charges.

### Technical data:

- Supply voltage according to NAMUR:  $7,7 \div 9 \text{ Vdc}$
- Max ripple: 10%
- Consumption at 8,2 V with  $R_x = 1000 \Omega$ 
  - with metal:  $\leq 1 \text{ mA}$
  - without metal:  $\geq 3 \text{ mA}$
- Temperature range:  $-20^\circ \div +60^\circ \text{C}$
- Max thermal drift of sensing distance  $S_n$ :  $\pm 10\%$
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section:  $0,35 \text{ mm}^2$
- 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:

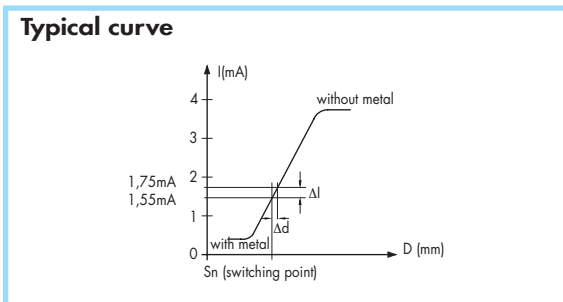
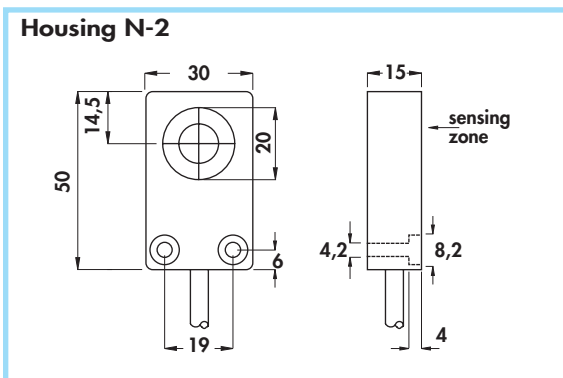
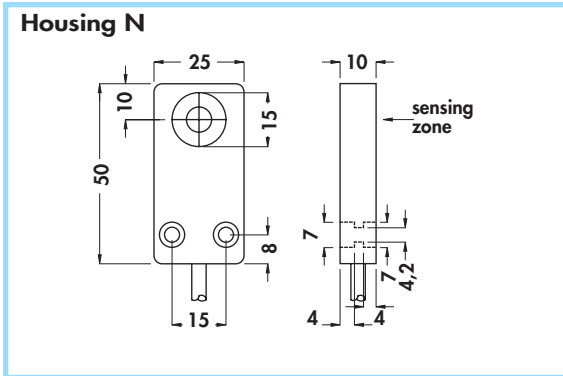
- $V_i \text{ max: } 13,5 \text{ V}$
- $I_i \text{ max: } 60 \text{ mA}$
- $C_i \text{ max: } 100 \text{ nF}$
- $L_i \text{ max: } 100 \mu\text{H}$
- $P_i \text{ max: } 200 \text{ mW}$

Use in hazardous area according to instruction manuals

Flush mounting Non flush mounting	Cable diameter	Sensing zone diameter	Nominal sensing distance ( $S_n$ ) $\pm 10\%$	Max switching frequency (f)	ORDERING REFERENCES
	mm	mm	mm	KHz	$\text{brown} \rightarrow R_x \rightarrow +$ $\text{blue} \rightarrow -$
•	4	9	2	1	<b>DCT/4700A</b>
•	4	9	4	0,8	<b>DCT/5700A</b>

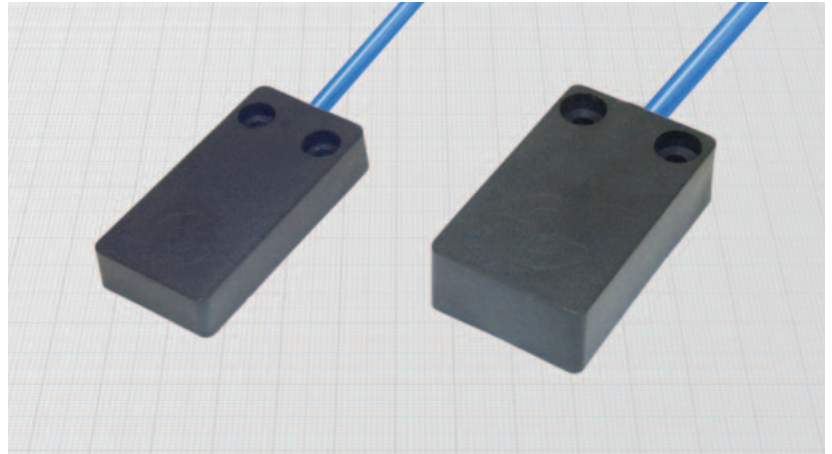


**NAMUR SERIES - X and Y Type** •  
**ATEX certified II 1GD for zone 0;20** •  
 Cable output •



**Materials:**

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



**General Features:**

This series of sensors is ideal for limited space applications. The particular material of the housing allows the use without additional protections against electrostatic charges.

**Technical data:**

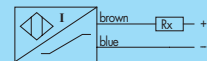
- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with Rx = 1000 Ω
  - with metal: ≤ 1 mA
  - without metal: ≥ 3 mA
- Temperature range: - 20° ÷ + 60°C
- Max thermal drift of sensing distance S<sub>i</sub>: ± 10%
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section: 0,35 mm<sup>2</sup>
- 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<sub>i</sub> max: 13,5 V
- I<sub>i</sub> max: 60 mA
- C<sub>i</sub> max: 100 nF
- L<sub>i</sub> max: 100 μH
- P<sub>i</sub> max: 200 mW

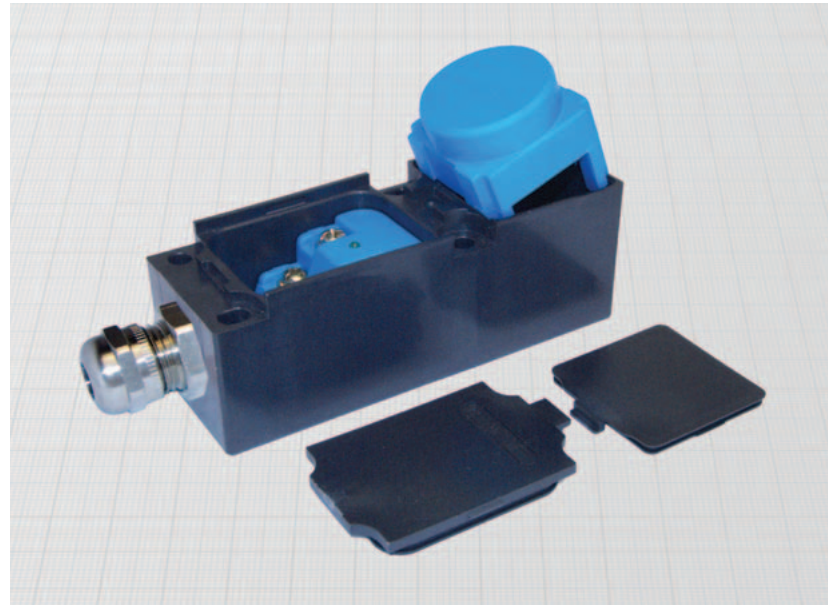
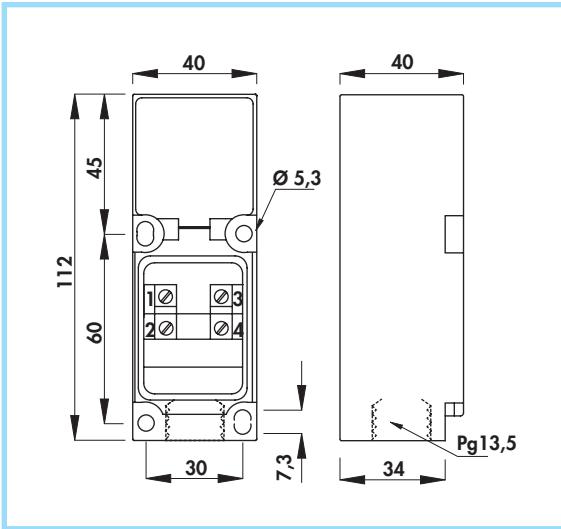
Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	Cable diameter	Sensing zone diameter	Nominal sensing distance (S <sub>n</sub> ) ±10%	Max switching frequency (f)	ORDERING REFERENCES
		mm	mm	mm	KHz	
Z	•	4	15	5	2	DCX/4700A DCX/5700A
	•	4	15	8	1	
N-2	•	4	23	10	0,8	DCY/4700A DCY/5700A
	•	4	23	15	0,4	

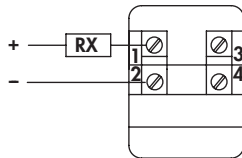


## RECTANGULAR INDUCTIVE ATEX SENSORS

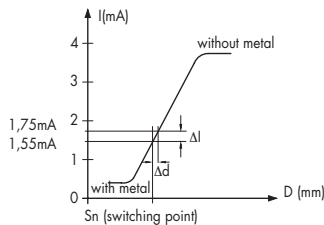
- **NAMUR SERIES - Type P - 5 Positions head**
- **ATEX certified II 1G for zone 0**
- Terminal block output



### Connecting diagram



### Typical curve



### Materials:

- Gland: nickel plated brass
- Housing: plastic

### General Features:

These sensors are described as "revolving head" because the actual sensor head, inside the plastic body, can be arranged in 5 different positions. To choose the desired direction it is sufficient to remove the cover, remove the head and positioning it according to the user's particular requirements. The internal terminal block can be reached easily by removing the front cover. The particular plastic material allows the use without additional protections against electrostatic charges.

### Technical data:

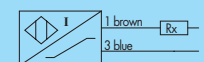
- Supply voltage according to NAMUR:  $7,7 \div 9$  Vdc
- Max ripple: 10%
- Consumption at 8,2 V with  $R_x = 1000 \Omega$ 
  - with metal:  $\leq 1$  mA
  - without metal:  $\geq 3$  mA
- Temperature range:  $-20^\circ \div +60^\circ\text{C}$
- Max thermal drift of sensing distance  $S_n$ :  $\pm 10\%$
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529 (with fully locked gland): IP65
- Marking: II 1G EEx ia IIC T6
- Certified CESI 03 ATEX 080
- According to: EN60947-5-6/EN50014/EN50020/EN50284
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- 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  $\mu\text{H}$
- $P_i$  max: 200 mW

Use in hazardous area according to instruction manuals

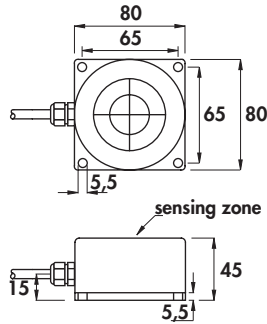
Flush mounting Non flush mounting	Revolving head diameter	Nominal sensing distance ( $S_n$ ) $\pm 10\%$	Max switching frequency (f)	ORDERING REFERENCES
	mm	mm	KHz	
•	35	15	0,2	<b>DCP/4700A</b>
•	35	20	0,2	<b>DCP/5700A</b>



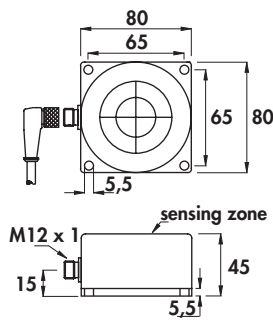


**NAMUR SERIES - diameter 80 mm •**  
**ATEX certified II 1GD for zone 0;20 •**  
 Cable and connector output •

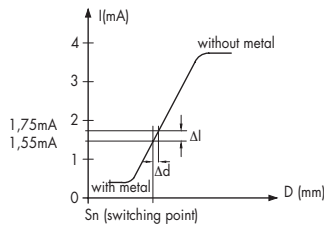
**Housing P**



**Housing P-1**

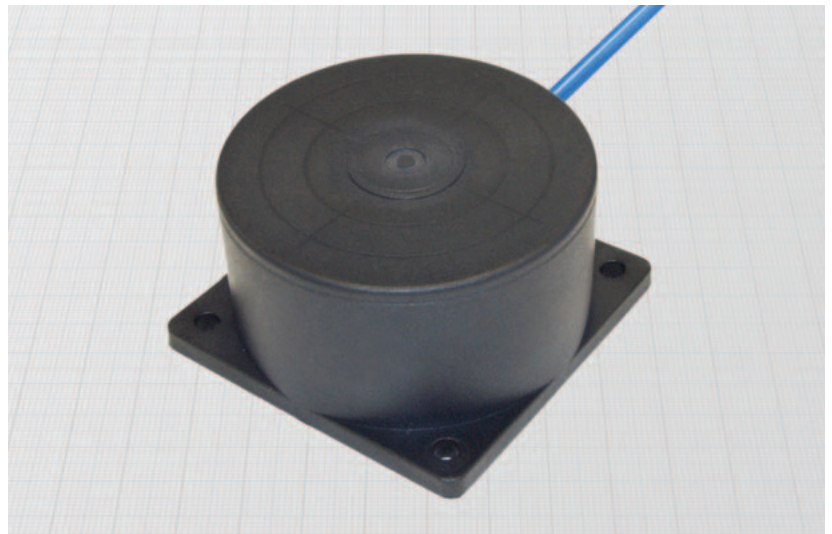


**Typical curve**



**Materials:**

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



**General Features:**

Suitable for detection of large targets. The special material of the housing allows the use without additional protections against electrostatic charges.

**Technical data:**

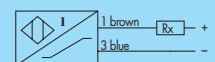
- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with  $R_x = 1000 \Omega$ 
  - with metal:  $\leq 1 \text{ mA}$
  - without metal:  $\geq 3 \text{ mA}$
- Temperature range:  $-20^\circ \div +60^\circ \text{C}$
- Max thermal drift of sensing distance  $S_n$ :  $\pm 10\%$
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section:  $0,75 \text{ mm}^2$
- Marking:  $\text{Ex}$  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  $\mu\text{H}$
- $P_i$  max: 200 mW

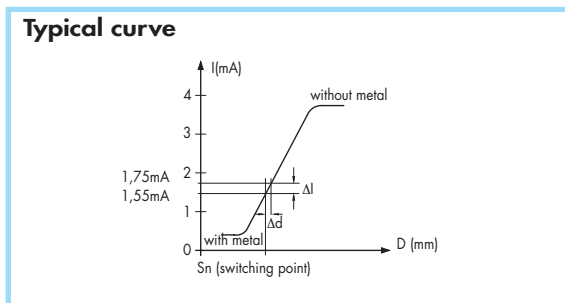
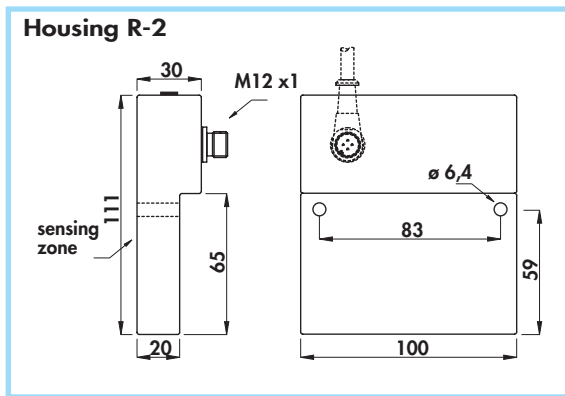
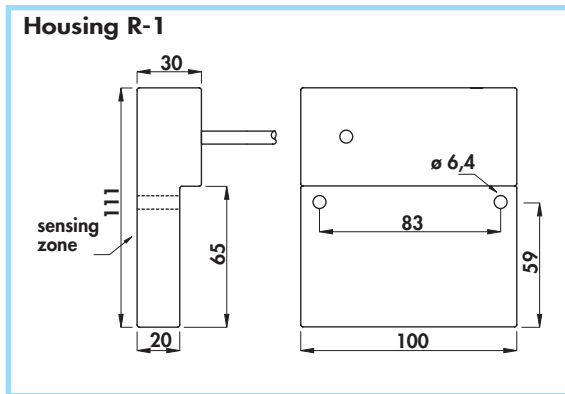
Use in hazardous area according to instruction manuals

Housing	Flush mounting Non flush mounting	Cable diameter	Female connector Alex	Body diameter (d)	Nominal sensing distance ( $S_n$ ) $\pm 10\%$	Max switching frequency (f)	ORDERING REFERENCES
		mm	n°	mm	mm	KHz	
P	•	5	-	80	40	0,5	<b>DC80/5800A</b>
P-1	•	-	8B-10	80	40	0,5	<b>DC80/5300A</b>



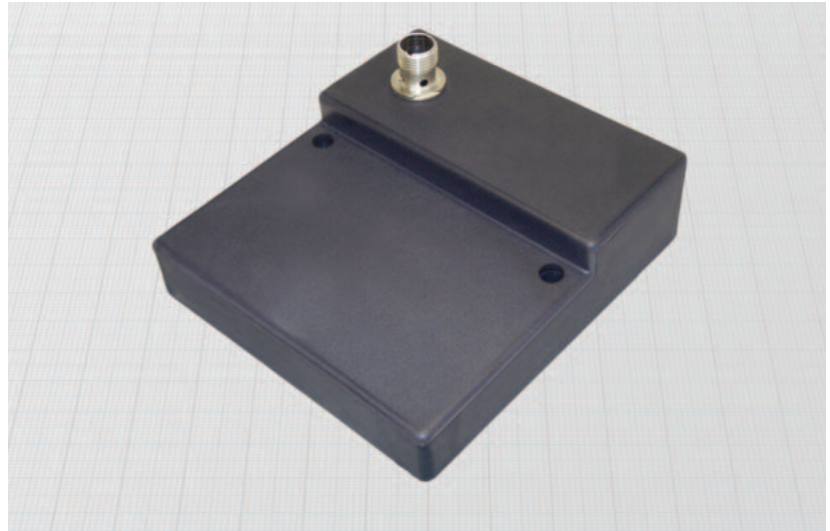
## RECTANGULAR INDUCTIVE ATEX SENSORS

- NAMUR SERIES - Type R
- ATEX certified II 1GD for zone 0;20
- Cable and connector output



### Materials:

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



### General Features:

Suitable for detection of large targets. The special material of the housing allows the use without additional protections against electrostatic charges.

### Technical data:

- Supply voltage according to NAMUR: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Consumption at 8,2 V with  $R_x = 1000 \Omega$ 
  - with metal:  $\leq 1 \text{ mA}$
  - without metal:  $\geq 3 \text{ mA}$
- Temperature range:  $-20^\circ \div +60^\circ \text{C}$
- Max thermal drift of sensing distance  $S_n$ :  $\pm 10\%$
- Repeat accuracy (R): 2%
- Degree of protection according to EN60529: IP67
- Cable conductor cross section: 0,75 mm<sup>2</sup>
- 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  $\mu\text{H}$
- $P_i$  max: 200 mW

Use in hazardous area according to instruction manuals

Housing	Mounting Flush mounting Non flush mounting	Cable diameter	Female connector Atex	Sensing zone diameter	Nominal sensing distance ( $S_n$ ) $\pm 10\%$	Max switching frequency (f)	ORDERING REFERENCES
		mm					
R - 1	•	5	-	75	55	0,3	DCR/5800A
R - 2	•	-	8B - 10	75	55	0,3	DCR/5300A

