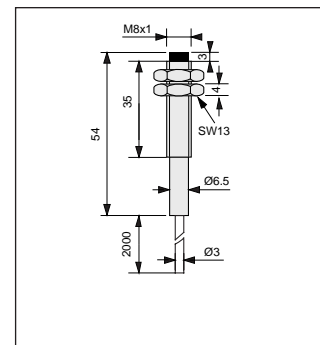
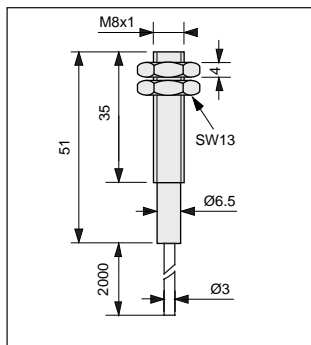


# NAMUR Inductive Proximity Detectors (Acc. DIN 19234) M8 - M12



84 717 741



<b>Form</b>
<b>Nominal sensing distance Sn (mm)</b>
<b>Housing</b>
Tightening torque (Nm)
Termination

M8 screened
1
Stainless steel
2 m PVC cable

M8 non-screened
2
Stainless steel
2 m PVC cable

## Part numbers

<b>2-wire DC NAMUR types</b>
<b>NC</b>
Min/max. supply voltage
ON state current with V supply=8.2 V
OFF state current with V supply=8.2 V
Current at specified Sn with V supply=8.2 V
Max. current (Ia)
Switching frequency (F)
Conductor cross-section / External cable diameter

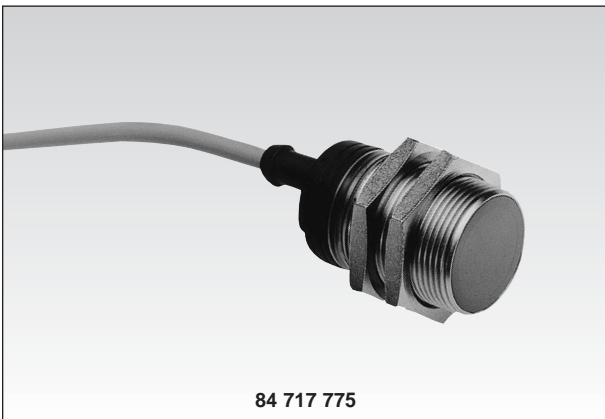
<b>84 717 707</b>
6 to 35 V $\overline{\text{---}}$
< 1 mA
> 2.2 mA
1.55 mA
9.35 mA
2 kHz
2 x 0.14 mm <sup>2</sup> / 3 mm

<b>84 717 709</b>
6 to 35 V $\overline{\text{---}}$
< 1 mA
> 2.2 mA
1.55 mA
9.35 mA
1.5 kHz
2 x 0.14 mm <sup>2</sup> / 3 mm

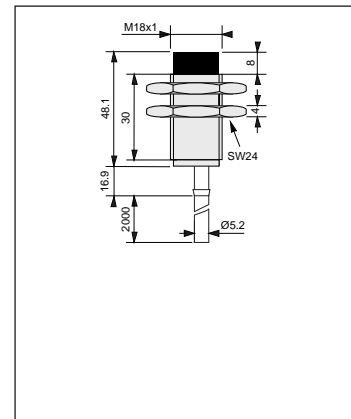
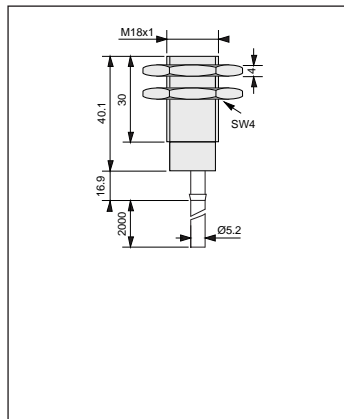
## Accessories

Mounting flanges, see page 3/102  
Connectors, see page 3/100 to 3/101

# NAMUR Inductive Proximity Detectors (Acc. DIN 19234) M18 - M30



84 717 775



<b>Form</b>
<b>Nominal sensing distance Sn (mm)</b>
<b>Housing</b>
Tightening torque (Nm)
Termination

M18 screened
5
Stainless steel
2 m PVC cable *M12 plastic connector

M18 non-screened
5
Stainless steel
2 m PVC cable *M12 plastic connector

## Part numbers

<b>2-wire DC NAMUR types</b>
<b>NC</b>
Min/max. supply voltage
ON state current with V supply=8.2 V
OFF state current with V supply=8.2 V
Current at specified Sn with V supply=8.2 V
Max. current (Ia)
Switching frequency (F)
Conductor cross-section / External cable diameter

<b>84 717 755</b> *84 717 767
6 to 35 V $\overline{\text{---}}$
< 1 mA
> 2.2 mA
1.55 mA
9.35 mA
500 Hz
2 x 0.5 mm <sup>2</sup> / 5.2 mm

<b>84 717 757</b> *84 717 769
6 to 35 V $\overline{\text{---}}$
< 1 mA
> 2.2 mA
1.55 mA
9.35 mA
200 Hz
2 x 0.5 mm <sup>2</sup> / 5.2 mm

## Accessories

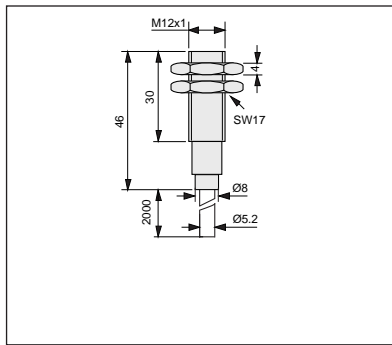
Mounting flanges, see page 3/102  
Connectors, see pages 3/100 to 3/101.

### Other information

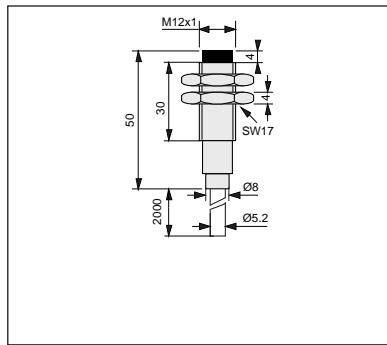
Special adaptations are available depending on the type of request and quantity required. Eg. cable length, tube length, connector type, etc.

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M12 screened  
 2  
 Stainless steel  
 2 m PVC cable \*M12 plastic connector



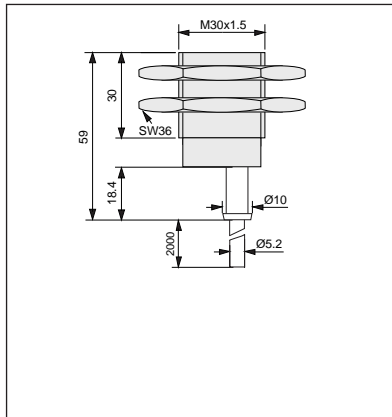
M12 non-screened  
 4  
 Stainless steel  
 2 m PVC cable \*M12 plastic connector

1

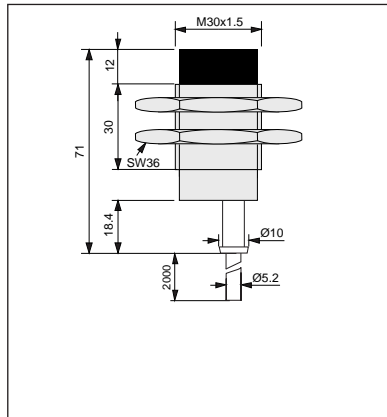
84 717 731	*84 717 743
6 to 35 V $\overline{=}$	6 to 35 V $\overline{=}$
< 1 mA	< 1 mA
> 2.2 mA	> 2.2 mA
1.55 mA	1.55 mA
9.35 mA	9.35 mA
800 Hz	800 Hz
2 x 0.5 mm <sup>2</sup> / 5.2 mm	2 x 0.5 mm <sup>2</sup> / 5.2 mm

84 717 733	*84 717 745
6 to 35 V $\overline{=}$	6 to 35 V $\overline{=}$
< 1 mA	< 1 mA
> 2.2 mA	> 2.2 mA
1.55 mA	1.55 mA
9.35 mA	9.35 mA
800 Hz	800 Hz
2 x 0.5 mm <sup>2</sup> / 5.2 mm	2 x 0.5 mm <sup>2</sup> / 5.2 mm

3



M30 screened  
 10  
 Stainless steel  
 2 m PVC cable \*M12 plastic connector



M30 non-screened  
 15  
 Stainless steel  
 2 m PVC cable \*M12 plastic connector

1

84 717 779	*84 717 791
6 to 35 V $\overline{=}$	6 to 35 V $\overline{=}$
< 1 mA	< 1 mA
> 2.2 mA	> 2.2 mA
1.55 mA	1.55 mA
9.35 mA	9.35 mA
300 Hz	300 Hz
2 x 0.5 mm <sup>2</sup> / 5.2 mm	2 x 0.5 mm <sup>2</sup> / 5.2 mm

84 717 781	*84 717 793
6 to 35 V $\overline{=}$	6 to 35 V $\overline{=}$
< 1 mA	< 1 mA
> 2.2 mA	> 2.2 mA
1.55 mA	1.55 mA
9.35 mA	9.35 mA
100 Hz	100 Hz
2 x 0.5 mm <sup>2</sup> / 5.2 mm	2 x 0.5 mm <sup>2</sup> / 5.2 mm

**To order, specify:**

Standard products, non stocked      **1** Part number  
 Example : Inductive proximity detector M8 84 717 707

Products and specifications subject to change without notice.

Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

# Inductive Proximity Detectors for Severe Environments

- Inductive detector for severe environments
- Operating range : - 55 °C to + 105 °C
- Conforms with standards :
  - EUROCAE ED 14 C
  - MIL STD



Nominal sensing distance  $S_n$  (mm)

Material Housing  
Face

Termination

## Part numbers

### 3-wire DC types

NPN NO   
NC 

Min/max. supply voltage

Switching current

Max. off-load current consumption

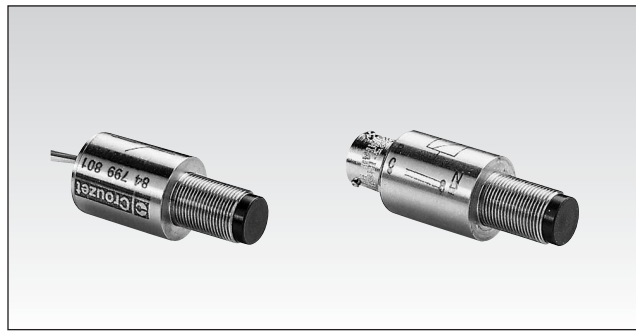
Residual voltage at 25 °C

Switching frequency

Termination

Sealing (MIL - S - 8 805)

Protection against mis-connections of any type  
against accidental voltage surges of short duration  
against indirect lightning effects  
against radio-electrical interference



2.5 ±0.25

Stainless steel

Rilsan

1m wire

2.5 ±0.25

Stainless steel

Rilsan

Connector

1

84 799 801

84 799 802

12 to 32 V  $\overline{\text{DC}}$

1 to 250 mA resistive

8 mA

2V 250 mA

250 Hz

3 x 0.6 mm<sup>2</sup> wires

Dust

yes

yes

yes

yes

84 799 803

84 799 804

12 to 32 V  $\overline{\text{DC}}$

1 to 250 mA resistive

8 mA

2V 250 mA

250 Hz

Type ASN E0053 N8133PN

Immersion in water

yes

yes

yes

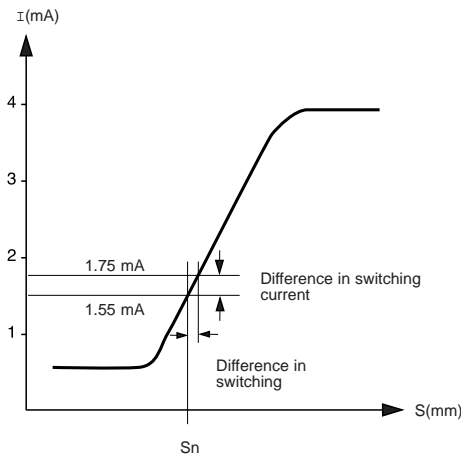
yes

# Inductive Proximity Detectors NAMUR (Acc. DIN 19234)

## Operating principle

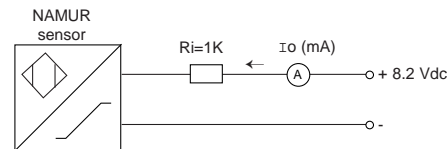
NAMUR sensors (DIN 19234) are 2-wire DC proximity detectors with no trip or output amplification stage. They are polarised and their internal impedance alters in proportion to the distance between the sensor face and the target. NAMUR sensors are designed for use with an external amplifier which converts the variations in impedance into digital signals.

## Output characteristics

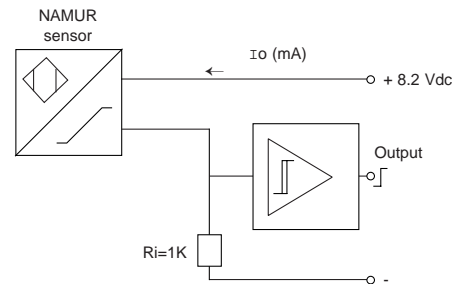


## Wiring diagrams

Without external amplifier



With external amplifier



The nominal sensing range ( $S_n$ ) specified corresponds to a current consumption of 1.55 mA with a supply voltage of 8.2 V to the circuit and  $R_i = 1$  Kohm. The table below gives the level of current consumption at nominal sensing range ( $S_n$ ) for other supply voltage and resistance values.

Supply voltage V (Vdc)	Resistance $R_i$ (Kohm)	Current consumption I at $S_n$ (mA)
5		
12	0.39	0.7
15	1.8	2.3
24	2.2	2.9
	3.9	3.8

## To order, specify :

Standard products, non stocked

**1** Part number

Example : Inductive proximity detector 84 799 801

Products and specifications subject to change without notice.

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