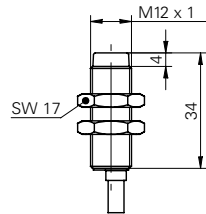


## Inductive sensors NAMUR

## IFRM 12X9103

## dimension drawing



## general data

mounting type	unshielded
nominal sensing distance $S_n$	4 mm
Approvals/certificates	ATEX

## electrical data

switching frequency	< 2 kHz
normal operating voltage	8,2 VDC
voltage supply range +Vs	5 ... 30 VDC
current consumption undamped	> 4 mA
current consumption damped	< 1 mA
current consumption max.	10 mA
output circuit	NAMUR
residual ripple	< 10 % Vs

## mechanical data

type	cylindrical threaded
housing material	brass nickel plated
dimension	12 mm
housing length	34 mm
connection types	cable, 2 m

## ambient conditions

operating temperature	-25 ... +75 °C
protection class	IP 67

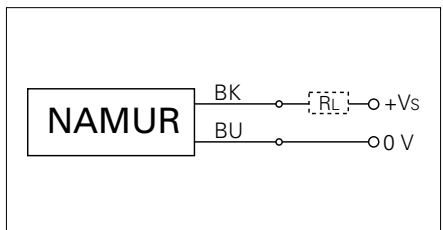
## safe maximum values

EC-type-examination Certificate	PTB 03 ATEX 2146
marking	II 1G Ex ia IIC T5/6
current $I_i$	< 37 mA
voltage $U_i$	< 13,5 VDC
power $P_i$	< 0,125 W
internal capacitance $C_i$	< 50 nF
internal inductance $L_i$	< 0,2 mH
operating temperature $T_a$ (temp. class T5)	-25 ... +60 °C
operating temperature $T_a$ (temp. class T6)	-25 ... +40 °C

## photo



## connection diagram



- on request: connector base version /S14