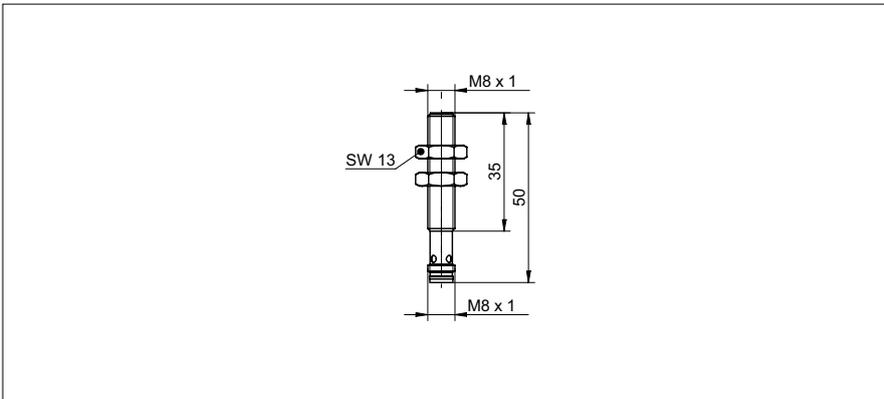


**Inductive sensors NAMUR**

**IFRM 08X9501/S35**

**dimension drawing**



**general data**

mounting type	flush
nominal sensing distance $S_n$	1,5 mm
approvals/certificates	ATEX 1G

**electrical data**

switching frequency	< 5 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. (no load)	10 mA
output circuit	NAMUR
residual ripple	< 10 % Vs

**mechanical data**

type	cylindrical threaded
housing material	stainless steel
dimension	8 mm
housing length	50 mm
connection types	connector M8

**ambient conditions**

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

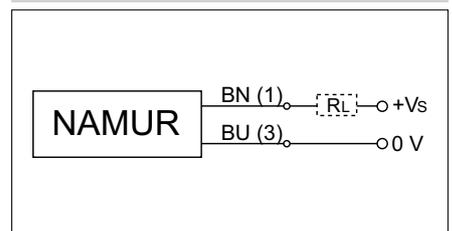
**safe maximum values**

EC-type-examination Certificate	PTB 03 ATEX 2146
marking	II 1G Ex ia IIC T6 Ga
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)	-20 ... +60 °C
operating temperature $T_a$ (temp. class T6)	-20 ... +40 °C

**photo**



**connection diagram**



- Safety: Sensor cables leading into category 1 hazardous areas must be installed according to the guidelines as specified in EN 60079-26 (IP 67)
- Within category 1 hazardous areas sensor and cable must be securely mounted
- The metal housing has to be conductively connected to the potential equalization system