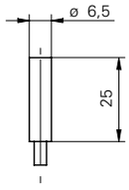
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Inductive sensors NAMUR

IFRM 06X

sample drawing



sample picture



general data	
mounting type	flush
nominal sensing distance Sn	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 smooth
housing material	brass nickel plated
dimension	6,5 mm
housing length	25 mm

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 Ii	< 37 mA
voltage Ui	< 13,5 VDC
power Pi	< 0,125 W
internal capacitance Ci	< 50 nF
internal inductance Li	< 0,2 mH
operating temperature Ta (temp. class T5)	-20 ... +60 °C
operating temperature Ta (temp. class T6)	-20 ... +40 °C

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order reference	connection types
IFRM 06X9503	cable, 2 m
IFRM 06X9503/P	cable PUR 5 x 0,14, 2 m