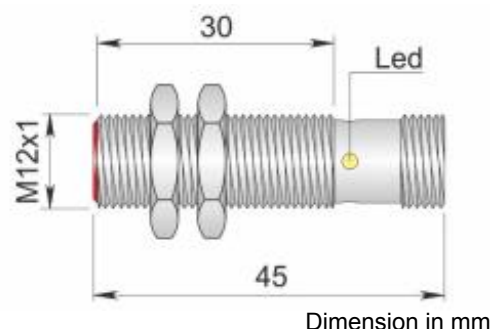
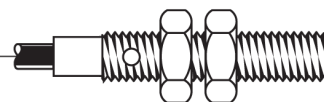


Part number: Y12000046 - Model: SI12-N2 H AGD1



TECHNICAL CHARACTERISTICS

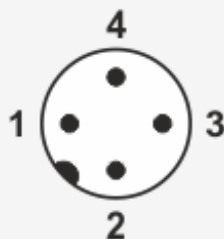
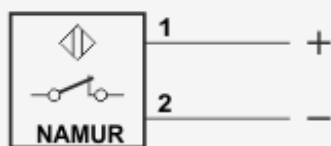
Power supply:	Direct current
Working voltage:	8.2 Vdc (1Kohm)
Switching distance (mm):	2
Output type:	Namur
Hysteresis (%Sn):	1 ÷ 10
Max. switching frequency:	2000 Hz
Repeatability (%Sn):	< = 3
Current absorption at 8.2V:	Target detected < = 1 mA - Target not detected >= 3 mA
Led indicator:	Present
Operating temperature limits:	-25 ÷ +60 °C
Storage temperature limits:	-30 ÷ +70 °C
IP rating:	IP 67
Housing material:	Nickelled brass
Weight:	70 g
Mechanical characteristics:	M12x1
Connection type:	H plug
Explosive atmosphere type:	Mixture Air/gas and/or Air/Dust
Equipment category:	1G / 1D
Installation area:	Gas: Zone 0, Zone 1 and Zone 2 - Dust: Zone 20, Zone 21 and Zone22
Protection method:	Intrinsically safe
Marking:	Gas: II 1G Ex ia IIC T6 Ga - Dust: II 1D Ex ia IIIC T85°C Da -25< Ta
Safety information:	Connection to certified intrinsically safe circuits only with the following values : Uo < = 17 V ,
Conforming standard:	EN60079-0, EN60079-11 and EN60947-5-12
EC-type examination certificate - ATEX:	IMQ 13 ATEX 019
Certificate of conformity (CoC) - IECEx:	IECEx IMQ 13.0012X



Part number: Y12000046 - Model: SI12-N2 H AGD1

WIRING DIAGRAM

CONNECTION WITH H PLUG



VIEW OF MALE CONNECTOR

1 = Brown / +
2 = Blue / -

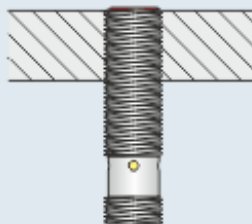
INSTRUCTIONS FOR CORRECT INSTALLATION

INSTRUCTIONS FOR CORRECT INSTALLATION

EMBEDDABLE

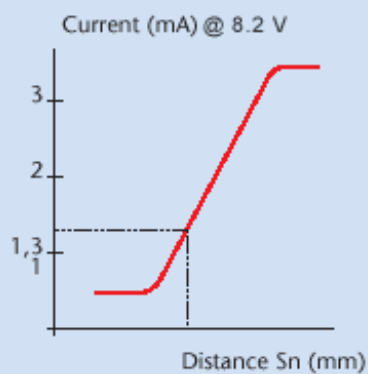


Side by side mounting



Flush mounting

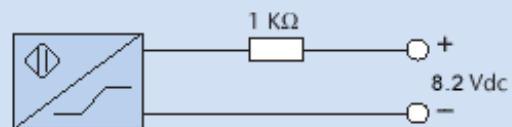
WORKING PRINCIPLE



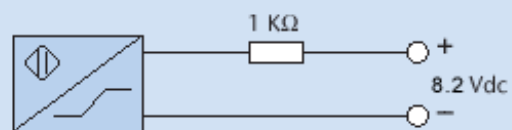
Metallic plate



In presence of metal $I \leq 1 \text{ mA @ } 8.2 \text{ V}$



In absence of metal $I \geq 3 \text{ mA @ } 8.2 \text{ V}$



The NAMUR EX sensors are electronic devices whose absorbed current varies in the presence of a metallic object. The difference between these sensors and traditional sensors is the absence of amplifier trigger stages.