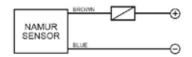


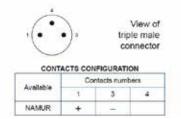


-				
				NAMUR
				FLUSH
				cable
IOMINAL SWITC	HING DISTAN	ICE		0,8 mm
10-30 Vdc	PNP/NPN	4 wires		
	NO-NC		order No.	
10-30 Vdc	PNP N0	3 wires	order No.	
40.001/1	PNP			
10-30 Vdc	NC	3 wires	order No.	
10-30 Vdc	NPN	3 wires		
10 30 440	NO	5 WIIC5	order No.	
10-30 Vdc	NPN NC	3 wires	order No.	
10.001/1	PNP			
10-30 Vdc	NO-NC	4 wires	order No.	
10-30 Vdc	NPN	4 wires		
10-50 vuc	NO-NC	4 WITES	order No.	
10-30 Vdc	NO-NC	2 wires		
		2 111 00	order No.	
20-250 Vac/Vdc	NO	2 wires		
			order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
			order No.	
20-250 Vac	250 Vac NO	2/3 wires	order No.	
	Analog 0-20		order rite.	
10-30 Vdc	mA	3 wires	order No.	
		0		IS-05-A20-03
NAMUR amplifier	NAMUR	2 wires	order No.	95B065410
Nominal Voltage				6+ 12 V DC
Residual Ripple				
Hysteresis				< 10%
Max. Output Current				< 3 mA (metal absent)
Min. Output Current	t			< 1 mA (metal present)
Residual Current				
Voltage Drop				
Operation Led				
Switching Frequence	:y			2000 Hz
Start Up Delay				< 10 ms
Repeatability				
Short Circuit Protee	ction			Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)
Protection Degree				IP67
Cable Length				2 m (PVC)
Cable Section				2x 0,15 mm ²
Housing Material				Stainless-Steel
Active face				LCP
Tightening torque				1,5Nm
Weight - Cable Outp				25g

2 wires NAMUR

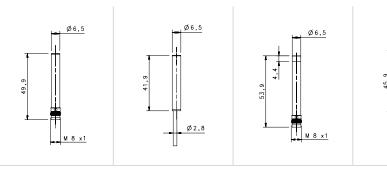


M8 2 wires NAMUR



NAMUR M6,5



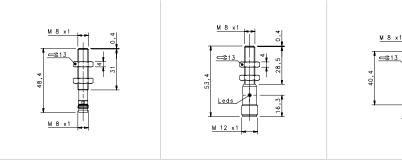


Ø6,5

Ø2,8

				NAMUR					
				FLU			NON FLUSH		
				M8 conn	cable	M8 conn	cable		
IOMINAL SWITC	HING DISTAN	ICE		1 mm	1 mm	2 mm	2 mm		
10.001/1	PNP/NPN	, .							
10-30 Vdc	NO-NC	4 wires	order No.						
0.001/1	PNP								
10-30 Vdc	NO	3 wires	order No.						
0.201/4-	PNP	3 wires							
10-30 Vdc	NC	5 WILES	order No.						
10-30 Vdc	NPN	3 wires							
0-50 vuc	NO	5 WIIES	order No.						
0-30 Vdc	NPN	3 wires							
10-30 vuc	NC	5 WIIES	order No.						
10-30 Vdc	PNP	4 wires							
0-50 vuc	NO-NC	4 11105	order No.						
10-30 Vdc	NPN	4 wires							
10-50 vuc	NO-NC	4 11105	order No.						
0-30 Vdc	NO-NC	2 wires							
10 30 440	NO NO	2 WIICS	order No.						
20-250 Vac/Vdc	NO	2 wires							
200 100, 100	2 110		order No.						
20-250 Vac/Vdc	50 Vac/Vdc NC 2								
200 100, 100	c NC 2 wires		order No.						
20-250 Vac	NO	2/3 wires							
200 100		2011100	order No.						
0-30 Vdc	Analog 0-20	20 3 wires							
	mA		order No.						
NAMUR amplifier	NAMUR	2 wires		IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03		
			order No.	95B066310	95B066290	95B066320	95B066300		
lominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC		
Residual Ripple				< 10%	< 10%	< 10%	< 10%		
lysteresis				< 10%	< 10%	< 10%	< 10%		
Max. Output Current	•			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)		
Min. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
Residual Current									
/oltage Drop									
peration Led									
Switching Frequence	:y			2000 Hz	2000 Hz	2000 Hz	2000 Hz		
Start Up Delay									
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
ectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads		
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)		
Protection Degree				IP67	IP67	IP67	IP67		
able Length					2 m		2 m		
Cable Section					2x 0,25 mm ²		2 x 0,25 mm ²		
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Active face				LCP	LCP	LCP	LCP		
Veight – Cable Outp	ut				80 g		80 g		
Veight - Connector (40 g		40 g			





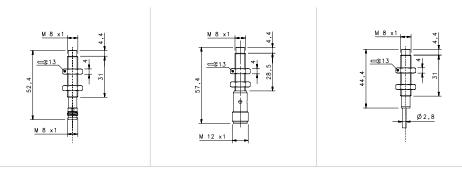
					NAMUR	
					FLUSH	
				M8 conn	M12 conn	cable
IOMINAL SWITC	HING DISTAN	ICE		1 mm	1 mm	1 mm
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10-50 400	NO	5 WIIES	order No.			
0-30 Vdc	PNP	3 wires				
0 00 140	NC	0 111100	order No.			
0-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
I 0-30 Vdc	PNP NO-NC	4 wires				
			order No.			
10-30 Vdc	NPN 4 wires					
	NO-NC		order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	c NO 2 wires		N -			
			order No.			
20-250 Vac/Vdc	NC	2 wires	andan Na			
			order No.			
20-250 Vac	NO	2/3 wires	andan Na			
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	1116		order no.	IS-08-A20-S1	IS-08-A20-S2	 S-08-A20-03
VAMUR amplifier	NAMUR	2 wires	order No.	95B066780	95B066760	95B066740
			order 140.	/3000/00	/3000700	730000740
Nominal Voltage				7.7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	<10%	< 10%
lysteresis				< 10%	<10%	< 10%
Max. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Vin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
, Residual Current						
/oltage Drop						
Dperation Led						
, Switching Frequenc	:v			2000 Hz	2000 Hz	2000 Hz
Start Up Delay						
Repeatability				< 3%	< 3%	< 3%
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67
Cable Length						2 m
Cable Section						2 m 2x 0,25 mm ²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face					LCP	LCP
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catal
Weight - Cable Outpu	ut				page e el ale inductive benoris outdiby	80 g
Weight - Connector				35a	550	g

35g

55g

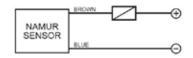
Weight - Connector Output

Ø2,8

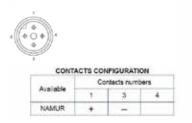


NON FLUSH							
M8 conn	M12 conn	cable					
2 mm	2 mm	2 mm					
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03					
95B066790	95B066770	95B066750					
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC					
< 10%	< 10%	< 10%					
< 10%	< 10%	< 10%					
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)					
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)					
 2000 Hz	 2000 Hz	 2000 Hz					
2000 HZ		2000 Hz					
< 3%	< 3%	< 3%					
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)					
Against polarity reversal	Against polarity reversal	Against polarity reversal					
inductive loads	inductive loads	inductive loads					
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)					
IP67	IP67	IP67					
		2 m					
		2 x 0,25 mm ²					
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass					
LCP	LCP	LCP					
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog					
		80 g					

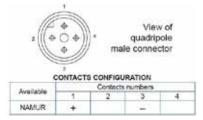
2 wires NAMUR



M8 2 wires NAMUR

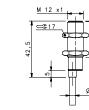


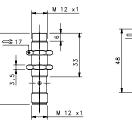
M12 2 wires NAMUR



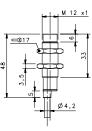


M 12 x1
Leds M 12 x1





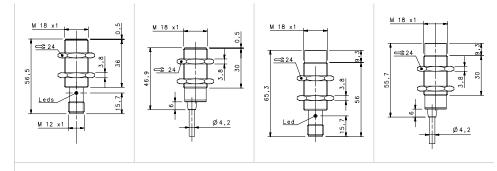
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					NA	MUR	
				FLU		NON F	LUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITC	DMINAL SWITCHING DISTANCE			2 mm	2 mm	4mm	4mm
10-30 Vdc	PNP/NPN	4 wires					
10-30 400	NO-NC	4 WIICS	order No.				
10-30 Vdc	PNP	3 wires					
10 30 440	NO	5 WIIC5	order No.				
10-30 Vdc	PNP	3 wires					
10-50 vuc	NC	5 WIIES	order No.				
10-30 Vdc	NPN	3 wires					
10-50 vuc	NO	5 WIIES	order No.				
10-30 Vdc	NPN	3 wires					
10-30 vuc	NC	5 WIIES	order No.				
10-30 Vdc	PNP	4 wires					
10-30 vuc	NO-NC	4 WIIES	order No.				
10-30 Vdc NPN NO-NC	4 wires						
		order No.					
10-30 Vdc	NO-NC	2 wires					
0-30 Vdc NO-NC	NU-NC		order No.				
20-250 Vac/Vdc	NO	2 wires					
20-250 vac/vdc	NO 2	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-230 Vac/ Vuc	NC.	Z WILES	order No.				
20-250 Vac	NO	2/3 wires					
20-250 Vac	NU	Z/3 WIRES	order No.				
10-30 Vdc	Analog 0-20	3 wires					
10-30 Vac	mA	3 wires	order No.				
	NAMUR	2		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03
NAMUR amplifier	NAMUR	2 wires	order No.	95B064180	95B064160	95B064190	95B064170
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				< 3 mA (metal absent)			
Min. Output Curren	t			< 1 mA (metal present)			
Residual Current							
Voltage Drop							
Operation Led							
Switching Frequend	cy			2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay	-						

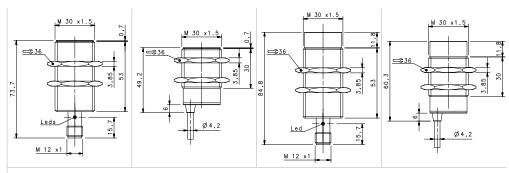
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,25 mm^2		2 x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	





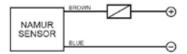
						MUR					
				FLU	JSH NAI		LUSH				
				M12 conn	cable	M12 conn	cable				
OMINAL SWITC	HING DISTAN	ICE		5mm	5mm	8mm	8mm				
0.001/1	PNP/NPN	, .									
0-30 Vdc	NO-NC	4 wires	order No.								
0.001/1-	PNP	2									
0-30 Vdc	NO	3 wires	order No.								
0-30 Vdc	PNP	3 wires									
0-30 Vac	NC	5 WILES	order No.								
0-30 Vdc	NPN	3 wires									
0-30 vuc	NO	5 WILES	order No.								
0-30 Vdc	NPN	3 wires									
0-50 vuc	NC	5 WIIES	order No.								
0-30 Vdc	PNP	4 wires									
0 50 440	NO-NC	4 WIIC5	order No.								
0-30 Vdc	NPN	4 wires									
0 50 440	NO-NC	4 WIICS	order No.								
0-30 Vdc	NO-NC	2 wires									
0 00 140		2 WIICS	order No.								
0-250 Vac/Vdc	NO	2 wires									
0 200 100, 100		2 111.00	order No.								
D-250 Vac/Vdc NC	2 wires										
			order No.								
0-250 Vac	NO	2/3 wires									
		order No.									
	Analog 0-20	3 wires									
	° mA		order No.								
IAMUR amplifier	NAMUR	MUR 2 wires		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03				
	·		order No.	95B064380	95B064360	95B064390	95B064370				
ominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC				
esidual Ripple				< 10%	<10%	<10%	< 10%				
ysteresis				< 10%	< 10%	< 10%	< 10%				
ax. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)				
lin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)				
esidual Current	•										
oltage Drop											
peration Led											
witching Frequenc	:V			1000 Hz	1000 Hz	1000 Hz	1000 Hz				
tart Up Delay	/										
Repeatability				< 3%	< 3%	< 3%	< 3%				
hort Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)				
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads				
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)				
rotection Degree				IP67	IP67	IP67	IP67				
able Length					2 m		2 m				
able Section					2 x 0,25 mm ²		2 x 0,25 mm ²				
				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass				
ousing Material				LCP	LCP	LCP	LCP				
						¥					
ctive face				* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductiv				
lousing Material Lctive face Tightening torque Veight - Cable Outpu				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog 145g	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog 145g				



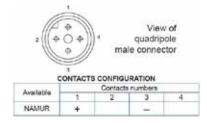


			NA	MUR	
		FLU		NON	FLUSH
		M12 conn	cable	M12 conn	cable
NCE		10mm	10mm	15mm	15mm
4 wires orde	r No.				
0i					
3 wires orde	r No.				
2					
3 wires orde	r No.				
3 wires					
orde	r No.				
3 wires					
orde	r No.				
4 wires					
4 Wiles orde	r No.				
4 wires					
4 wires orde	r No.				
2 wires					
orde	r No.				
2 wires					
orde	r No.				
2 wires					
orde	r No.				
2/3 wires					
orde	r No.				
3 wires					
orde					
2 wires		S-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03
orde	r No.	95B064630	95B064610	95B064640	95B064620
		7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
		< 10%	< 10%	< 10%	< 10%
		< 10%	< 10%	< 10%	< 10%
		nA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
	<1m	nA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
		500 Hz	500 Hz	500 Hz	500 Hz
		< 3%	< 3%	< 3%	< 3%
	Drace	< 3% ent (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting)
	Again	st polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
		nductive loads	inductive loads	inductive loads	inductive loads
	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
		IP67	IP67	IP67	IP67
			2 m 2 x 0,25 mm ²		2 m 2 x 0,25 mm ²
	. I		Nickel-plated brass		
	NIC	kel-plated brass	NICKEL-plated brass	Nickel-plated brass	Nickel-plated brass
	* ເວດ ກາ				* see page 5 of the Inductiv
			Sensors Catalog	Sensors Catalog	Sensors Catalog
			210 g		210 g
			* see page 5 of the Inductive Sensors Catalog 170 g	Sensors Catalog Sensors Catalog 210 g	Sensors Catalog Sensors Catalog Sensors Catalog 210 g

2 wires NAMUR



M12 2 wires NAMUR



PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fac	ct. 0,45	0,85	0,4	0,5



*IS-88 models only