NAMUR

Stainless Steel housing Short length Operating distance 0.8 ... 15 mm M12, M18 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

"M12/18/30 models are Diversey and ECOLAB tested"









M12/18/30 FLUSH models are ATEX certified II3G EX nA II T6 113D EX tD A22 IP67 T85°C



Phone: 800.894.0412 - Fax: 888.723.4773 - Web: www.ctiautomation.net - Email: info@ctiautomation.net



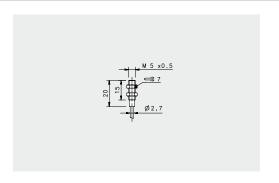
NAMUR amplifier

NAMUR

2 wires

order No.

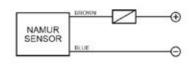




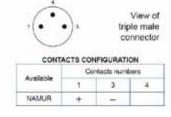
				FLUSH
				cable
NOMINAL SWITCH	HING DISTAN	CE		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
	+			

Nominal Voltage	6+ 12 V DC
Residual Ripple	
Hysteresis	< 10%
Max. Output Current	< 3 mA (metal absent)
Min. Output Current	< 1 mA (metal present)
Residual Current	
Voltage Drop	
Operation Led	
Switching Frequency	2000 Hz
Start Up Delay	< 10 ms
Repeatability	
Short Circuit Protection	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 mm²
Housing Material	Stainless-Steel
Weight - Cable Output	25g
Weight - M12 Connector Output	

2 wires NAMUR



M8 2 wires NAMUR



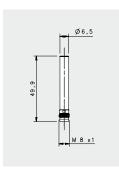
Phone: 800.894.0412 - Fax: 888.723.4773 - Web: www.ctiautomation.net - Email: info@ctiautomation.net

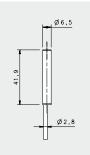
IS-05-A20-03

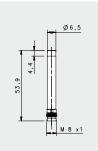
95B065410

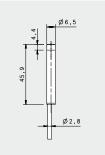
NAMUR M6,5





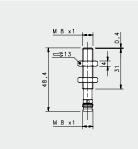


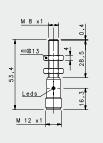


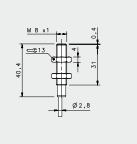


				NAMUR					
				FLL	JSH	NON F	LUSH		
				M8 conn	cable	M8 conn	cable		
NOMINAL SWITCHING DISTANCE		1 mm	1 mm	2 mm	2 mm				
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.						
10-30 Vdc	PNP	3 wires	order No.						
10 30 vac	NO	5 Wiles	order No.						
10-30 Vdc	PNP NC	3 wires	order No.			 			
10-30 Vdc	NPN NO	3 wires	order No.						
10-30 Vdc	NPN	3 wires	order No.						
10-30 Vuc	NC	2 MILES	order No.						
10-30 Vdc	PNP NO-NC	4 wires	order No.						
	NPN		order No.						
10-30 Vdc	NO-NC	4 wires	order No.						
40 70 1/4-	NO NC	2							
10-30 Vdc	NO-NC	2 wires	order No.						
20-250 Vac/Vdc	NO	2 wires	order No.						
			Order 140.						
20-250 Vac/Vdc	NC	2 wires	order No.						
20-250 Vac	NO	2/3 wires	and an Na						
	A1		order No.						
10-30 Vdc	Analog 0-20 mA	3 wires	order No.						
NAMUR amplifier	NAMUR	2 wires	order No.	IS-65-A20-S1 95B066310	IS-65-A20-03 95B066290	IS-65-C20-S1 95B066320	IS-65-C20-03 95B066300		
Naminal Valtana				77.00000	77 . 0 V DC	77 . 0 V DC	77.070		
Nominal Voltage Residual Ripple				7,7 + 9 V DC < 10%					
Hysteresis				< 10%	< 10%	< 10%	< 10%		
Max. Output Currer	nt-			< 3 mA (metal absent)					
Min. Output Curre				< 1 mA (metal present)					
Residual Current									
Voltage Drop									
Operation Led									
Switching Frequen	ıcv			2000 Hz	2000 Hz	2000 Hz	2000 Hz		
Start Up Delay	1								
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Prote	ction			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					2x 0,25 mm²		2 x 0,25 mm²		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	put				80 g		80 g		
Weight - M12 Conn				40 g		40 g			

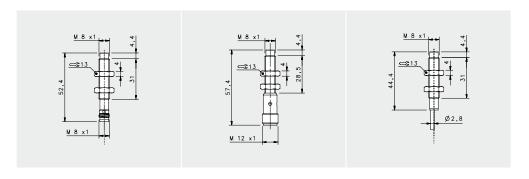






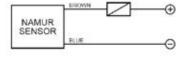


					NAMUR			
				FLUSH				
			'	M8 conn	M12 conn	cable		
OMINAL SWITCH	IING DISTAN	CE		1 mm	1 mm	1 mm		
10-30 Vdc	PNP/NPN	/i						
10-30 vac	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	3 wires						
10-50 vac	NO	5 WIIES	order No.					
10-30 Vdc	PNP	3 wires						
10-30 vuc	NC	3 WIIES	order No.					
10-30 Vdc	NPN	3 wires						
10-30 vac	NO	2 MILE2	order No.					
10-30 Vdc	NPN	3 wires						
10-30 vac	NC	2 MILE2	order No.					
10-30 Vdc	PNP	4 wires						
10-30 vac	NO-NC	4 WIIES	order No.					
10-30 Vdc	NPN	4 wires						
JO Vac	NO-NC	- vviiC3	order No.					
10-30 Vdc	NO-NC	2 wires						
10 30 vac	140 140	2 WIIC3	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/ Vuc	INO	2 WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 vac/ vac	IVC	2 WIIES	order No.					
20-250 Vac	NO	2/3 wires						
20-230 vac	INO	2/ J WIIES	order No.					
10-30 Vdc	Analog	2 wires						
10-30 vuc	0-20 mA	mA 3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires		IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03		
MAINIOR AITIPIITIEI	IVAIVIOR	2 WIIES	order No.	95B066760	95B066780	95B066740		
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC		
Residual Ripple				< 10%	< 10%	< 10%		
Hysteresis				< 10%	< 10%	< 10%		
Max. Output Currer				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)		
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
Residual Current								
/oltage Drop								
Operation Led								
Switching Frequen	ncy			2000 Hz	2000 Hz	2000 Hz		
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)		
Protection Degree				IP67	IP67	IP67		
Cable Length						2 m		
Cable Section						2x 0,25 mm²		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	put					80 g		
Weight - M12 Conn	actor Output			35g	55g			

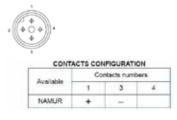


	NAMUR	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
		
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03
95B066790	95B066770	95B066750
335000730	338000770	335000730
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
2000 Hz	2000 Hz	2000 Hz
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67
		2 m
		2 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
		80 g
35g	55g	

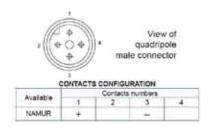
2 wires NAMUR



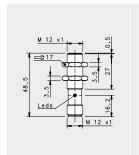
M8 2 wires NAMUR

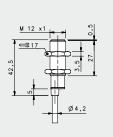


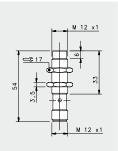
M12 2 wires NAMUR

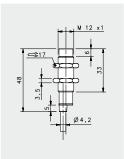






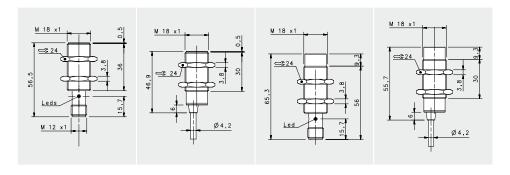






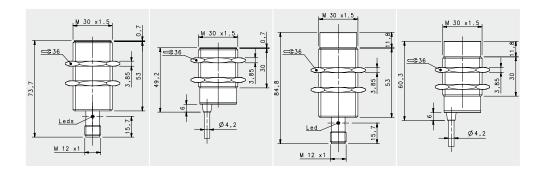
				NAMUR					
				FLL	JSH	NON I	FLUSH		
				M12 conn	cable	M12 conn	cable		
IOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	4mm	4mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	 					
10-30 Vdc	PNP	3 wires	N -						
10-30 Vdc	NO PNP	3 wires	order No.						
10-30 Vuc	NC	3 WIIES	order No.						
10-30 Vdc	NPN NO	3 wires	order No.						
10-30 Vdc	NPN NC	3 wires	order No.						
10.2014-	PNP		0.00.1101						
10-30 Vdc	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.						
			order No.						
20-250 Vac/Vdc	NO	2 wires	order No.						
20-250 Vac/Vdc	NC	2 wires	order No.						
00. 250 1/	NO	2/2							
20-250 Vac	NO	2/3 wires	order No.						
10-30 Vdc	Analog	Analog 3 wires							
10-30 vuc	0-20 mA	2 Miles	order No.						
NAMUR amplifier	NAMUR	2 wires		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03		
VAIVION GITIPIITICI	MAINION	2 WIICS	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 Curre	nt			< 3 mA (metal absent)					
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present		
Residual Current									
/oltage Drop									
Operation Led									
Switching Frequer	ncy			2000 Hz	2000 Hz	2000 Hz	2000 Hz		
Start Up Delay									
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting		
Electric Protection	l			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa 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		
Table 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		
Weight - Cable Out					110 g		110 g		
Weight - M12 Conr	nector Output			60 g		60 g			





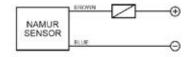
				NAMUR					
				FLI	JSH	NON I	NON FLUSH		
				M12 conn	cable	M12 conn	cable		
NOMINAL SWITCH	IING DISTAN	CE		5mm	5mm	8mm	8mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.						
10-30 Vdc	PNP NO	3 wires	order No.						
10-30 Vdc	PNP NC	3 wires	order No.						
10-30 Vdc	NPN NO	3 wires	order No.						
10-30 Vdc	NPN NC	3 wires	order No.						
10-30 Vdc	PNP NO-NC	4 wires	order No.						
10-30 Vdc	NPN NO-NC	4 wires							
10-30 Vdc	NO-NC	2 wires	order No.						
20-250 Vac/Vdc	NO	2 wires	order No.						
20-250 Vac/Vdc	NC	2 wires	order No.						
20-250 Vac	NO	2/3 wires	order No.	 					
10-30 Vdc	Analog	3 wires	order No.						
	0-20 mA	3 1163	order No.						
NAMUR amplifier	NAMUR	2 wires	order No.	IS-18-A20-S2 95B064380	IS-18-A20-03 95B064360	IS-18-C20-S2 95B064390	IS-18-C20-03 95B064370		
Nominal 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%		
Hysteresis				< 10%	< 10%	< 10%	< 10%		
Max. Output Curre	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)		
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
Residual Current									
/oltage Drop									
Operation Led									
Switching Frequer	ncy			1000 Hz	1000 Hz	1000 Hz	1000 Hz		
Start Up Delay									
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
lectric Protection	1			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		
Cable Length					2 m		2 m		
Cable Section					2 x 0,25 mm²		2 x 0,25 mm²		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	put				145g		145g		
Weight - M12 Conr	nector Output			95g		95g			





				NAMUR				
				FLU	ISH	NON	FLUSH	
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		10mm	10mm	15mm	15mm	
10-30 Vdc	PNP/NPN	4 wires						
10-30 vac	NO-NC	4 WIIES	order No.					
10-30 Vdc	PNP NO	3 wires						
	PNP		order No.					
10-30 Vdc	NC	3 wires	order No.					
10-30 Vdc	NPN	2						
10-30 Vac	NO	3 wires	order No.					
10-30 Vdc	NPN	3 wires						
	NC		order No.					
10-30 Vdc	NO NC	4 wires	a und a ur Ni a					
	NO-NC		order No.					
0-30 Vdc	NPN NO-NC	4 wires						
	INO-INC		order No.					
0-30 Vdc	NO-NC	2 wires	a mala m Nila					
			order No.					
0-250 Vac/Vdc	NO	2 wires						
			order No.					
0-250 Vac/Vdc	NC	2 wires	a mala m Nila					
			order No.					
0-250 Vac	NO	2/3 wires	order No.					
	0 1		order No.					
0-30 Vdc	Analog 0-20 mA	3 wires	order No.					
	0 20 11.01		order No.	IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03	
IAMUR amplifier	NAMUR	2 wires	order No.	95B064630	95B064610	95B064640	95B064620	
			order ivo.	338004030	335004010	338004040	335004020	
Iominal 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%	
лах. Output Currer	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
Min. Output Curre				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
oltage Drop								
peration Led								
witching Frequer	ıcv			500 Hz	500 Hz	500 Hz	500 Hz	
itart Up Delay	-1							
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	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 reversa inductive loads	
Temperature 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	
Table Section					2 x 0,25 mm²		2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Weight - Cable Out	nut				210 g		210 g	
Weight - Cable Out Weight - M12 Conr	•			170 g	210 g	170 g	210 g	

2 wires NAMUR



M12 2 wires NAMUR

