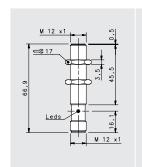
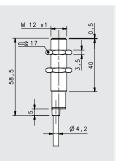
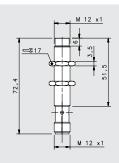
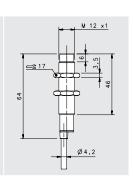
BASIC M12



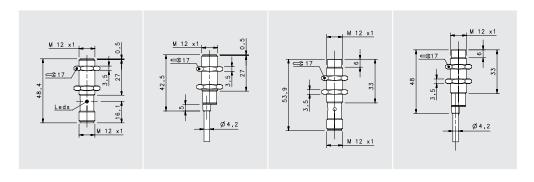








				STANDARD			
				FLI	JSH		FLUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	4 mm	4 mm
	PNP/NPN			IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040
	PNP			IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03
10-30 Vdc	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641
	PNP			IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03
10-30 Vdc	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671
	NPN			IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03
10-30 Vdc	NO	3 wires	order No.	95B061191	95B061181	95B061591	95B061581
	NPN		order ivo.	IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03
10-30 Vdc	NC	3 wires	order No.	95B061221	95B061211	95B061621	95B061611
	PNP		order No.				
10-30 Vdc	NO-NC	4 wires	order No.				
			order ivo.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
	NO NC		order No.	IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03
10-30 Vdc	NO-NC	2 wires	audau Na		95B064100		
			order No.	95B063931		95B064140	95B064110
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		order No.				
NAMUR amplifier	NAMUR	2 wires					
- · · · · ·			order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Currei	nt			200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Curre				> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current				< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)
/oltage Drop				< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequer	ירע			1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-N
Start Up Delay	icy			< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
				Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
lectric Protection	1			inductive loads	inductive loads	inductive loads	inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2/3/4 x 0,25 mm²		2/3/4 x 0,25 mm ²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Out	put				110 g		110 g
Weight - Connecto	r Output			60 g		60 g	

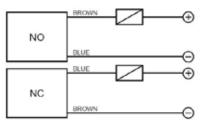


M12 conn		SHORT					
2 mm 2 mm 4 mm 4 mm	FLL		NON FLUSH				
	M12 conn	cable	M12conn	cable			
	2 mm	2 mm	4 mm	4 mm			
IS-12-B1-S2							
95B062051 95B062041 95B062451 95B062441 15-12-B2-52 15-12-B2-03 15-12-B2-03 15-12-B2-03 15-12-B2-03 15-12-B2-03 15-12-B2-03 15-12-B2-03 15-12-B2-03 15-12-B3-52 15-12-B3-03 15-12-B3-52 15-12-B3-03 15-12-B3-52 15-12-B3-03 15-12-B4-52 15-12-B3-03 15-12-B4-52 15-12-B4-03 15							
IS-12-B2-S2	IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03			
95B062081 95B062071 95B062471 IS-12-B3-52 IS-12-B3-03 IS-12-D3-03 95B063991 95B062391 95B062391 IS-12-B4-52 IS-12-B4-03 IS-12-D4-52 IS-12-D4-03 95B062021 95B062011 95B062421 95B062411	95B062051	95B062041	95B062451	95B062441			
IS-12-B3-52 IS-12-B3-03 IS-12-D3-52 IS-12-D3-03 95B061991 95B061991 95B061991 95B061991 95B061991 95B061991 95B062931 95B062931 95B062021 95B06202	IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03			
958061991 958061981 958062391 958062381 IS-12-84-52 IS-12-84-03 IS-12-84-52 IS-12-84-03 IS-12-84-62 IS-12-84-03 IS-12-84-62 IS-12-84-03 IS-12-84-62 IS-12-84-03 IS-12-84-62 IS-12-84-03 IS-12-84-03 IS-12-84-62 IS-12-84-03 IS-12-84-62 IS-12-84-03 IS-12-84-82 IS-12-84-03 IS-12-84-82 IS-12-84-03 IS-12-84-82 IS-12-84-03 IS-12-84-03 IS-12-84-82 IS-12-84-03 IS	95B062081	95B062071	95B062481	95B062471			
	IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03			
95B062021 95B062011 95B062421 95B062411	95B061991	95B061981	95B062391	95B062381			
10-30 Vdc (-15/10%)	IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03			
	95B062021	95B062011	95B062421	95B062411			
10-30 Vdc (-15/10%)							
10-30 Vdc (-15/10%)							
10-30 Vdc (-15/10%)							
10-30 Vdc (-15/10%)							
10-30 Vdc (-15/10%) 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%							
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%)							
< 10%							
< 10%							
< 10%							
200 mA 200 mA 200 mA 200 mA < 10 mA							
-							
< 10 mA							
< 1,8 V (I=100mA)							
Yellow Yellow Yellow Yellow 1000 Hz 1000 Hz 1000 Hz 1000 Hz < 50 ms							
1000 Hz 1000 Hz 1000 Hz 1000 Hz 1000 Hz 1000 Hz < 50 ms < 50 ms < 50 ms < 50 ms < 50 ms < 3% < 3% < 3% Present (self-resetting) Present (self-resetting)							
< 50 ms < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 IP67 IP67 IP67 2 m 3 x 0,25 mm² Nickel-plated brass < 50 ms < 3% < Present (self-resetting) Present (self-resetting) Present (self-resetting) Present (self-resetting) Present (self-resetting) Against polarity reversal inductive loads inductive loads (-25 +60 °C) (-25 +70 °C) (-25 +70 °C) IP67 IP							
< 3%							
Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 IP67 IP67 IP67 I P767							
Against polarity reversal inductive loads inductive loads inductive loads (-25 +60 °C) (-25 +70 °C) (-25 +60 °C) (-25 +70 °C) IP67 IP67 IP67 IP67 IP67 2 m 2 m 3 x 0,25 mm² 3 x 0,25 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass							
inductive loads inductive loads inductive loads inductive loads (-25 +60 °C) (-25 +70 °C) (-25 +60 °C) (-25 +70 °C) IP67 IP67 IP67 IP67 2 m 2 m 3 x 0,25 mm² 3 x 0,25 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass							
IP67 IP67 IP67 IP67 2 m 2 m 3 x 0,25 mm² 3 x 0,25 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass							
2 m 2 m 3 x 0,25 mm² 3 x 0,25 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass							
3 x 0,25 mm² 3 x 0,25 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass	IP67	IP67	IP67				
Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass							
	·		·	·			
110 g 110 g		110 g		110 g			

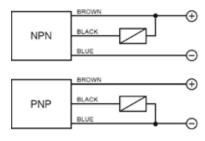
60 g

60 g

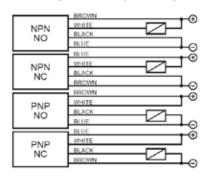
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Ameliania	Contacts numbers			
Available	1	2	3	4
NO	+		-	
NC	200		+	

3 wires

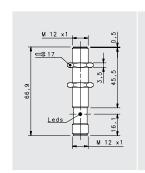
C	ONTACT	CONFIGU	RATION	
Available		Contacts	numbers	
Average	-1	2	3	4
(NO or NC)	+		-	NONC

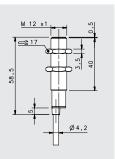
4 wires (PNP/NPN, NO/NC)

Output		Contacts	numbers	
	-1	2	3	- 4
VPN NO	+	NO	_	-
NPN NC	-	NC	+:	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NO

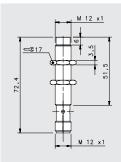
BASIC M12

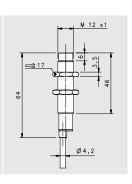




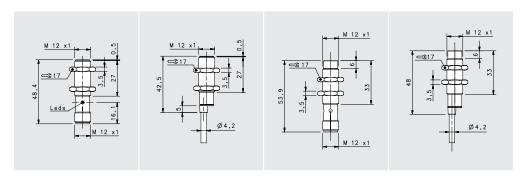


STANDARD X2

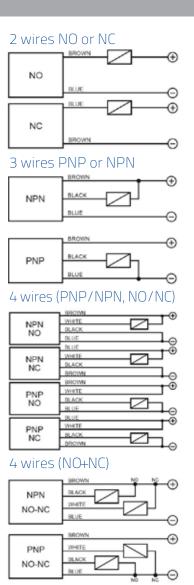




					JIANU	ARD AZ	
				FL	JSH	NON	FLUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		41	mm	8 r	nm
10-30 Vdc	PNP/NPN	4 wires		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03
10-30 vac	NO-NC	4 WIIES	order No.	95B067230	95B067190	95B067250	95B067210
10-30 Vdc	PNP	3 wires		IS-12-E1-S2		IS-12-F1-S2	
	NO		order No.	95B067030		95B067020	
10-30 Vdc	PNP NC	3 wires	order No				
			order No.				
10-30 Vdc	NPN NO	3 wires	order No.				
	NPN		order ivo.				
10-30 Vdc	NC	3 wires	order No.				
	PNP						
10-30 Vdc	NO-NC	4 wires	order No.				
10. 20 V/dc	NPN	Luiros					
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03
10-30 Vac	INO-INC	2 WIIES	order No.	95B067240	95B067200	95B067260	95B067220
20-250 Vac/Vdc	NO	2 wires					
20 250 140, 140	110	2 Wiles	order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires					
		Δηαίος	order No.				
10-30 Vdc	Analog 0-20 mA 3 wires	order No.					
	0 ZOTIIA		order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
			order ito:				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre	nt			100 mA	100 mA	100 mA	100 mA
Min. Output Curre	nt						
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 1,2 V (I=100mA)			
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequer	псу			500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-N
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads			
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section							
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Out	•						
Weight - Connecto	r Output			60 g	60 g	60 g	60 g



	SHOR	RT X2	
FLL	JSH		LUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
500 Hz/200 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,25 mm²		3 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
	110 g		110 g
60 g		60 g	



M12 connector connections



2 wires NO or NC

CONTACTS CONFIGURATION						
and the second	Contacts numbers					
AVAIGNOR	1	2	3	4		
NO	+		-			
NC	-		+			

3 wires

C	ONTACTS	CONFIGU	RATION	
W. L. W. Sand		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NONE

4 wires (PNP/NPN, NO/NC)

Output		Contacts	numbers	
	1	2	3	- 4
NPN NO	+	NO	1.000	
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP.NC	-	+	+	NO

4 wires (NO+NC)

Available		Contacts	numbers	
Available	1	2	3	4
(NO + NC)	+	NC:	-	190