

Features D4mm diameter Sn=0.6mm,0.8mm,shielded 6-12VDC operating voltage Stainless steel housing case Namur output Cable version 1P67 Protection		04 1 8 1 02.7 (Unit: mm)		20 	
	C€				
0		0 0	-1-1-	a a	-1-1-
Connection		2m C		2m Ca	
Mounting		Shielded	Shielded	Shielded	Shielded
Steel Case	Namur	N7DC04N0.6A	N7DC04N0.8A	N7DE04N0.6A	N7DE04N0.8A
3,00, 0036	Namur with LED				
	Namur				
PBT Case	Namur with LED				
General Data	Trainiai Mar 225				
		~.		~.	
Housing size		Ø4n		Ø4mm	
Installation type		Shielded	Shielded	Shielded	Shielded
Sensing distance(S	Sn: mm)	0.6mm	0.8mm	0.6mm	0.8mm
Standard sensing	object	Steel 4x4x1mm	Steel 4x4x1mm	Steel 4x4x1mm	Steel 4x4x1mm
Effective sensing distance (Sr: mm)		90 110% of Sn		90 110% of Sn	
Assured operating	distance(Sa: mm)	0 80% of Sn		0 80% of Sn	
Hysteresis		<15%		<15%	
				Stainless steel	
Housing material		Stainless steel 6 12VDC		Stainless steel 6 12VDC	
Operating voltage		6 12	VDC	6 12	VDC
Electrical Data					
Rated operating vo	oltage	8VDC		8VDC	
Repeated accuracy	y	±10%		±10%	
Ripple		1		1	
No load current		>2.2mA(Off), <1.1mA(On)		>2.2mA(Off), <1.1mA(On)	
Max. Load current		1			
Leakage current		,		,	
		, <u>'</u>	,	1	
Voltage drop		200011=	200011-	,	/
Switching frequence	by	2000Hz	2000Hz	2000Hz	2000Hz
Response time		0.05ms/0.05ms	0.05ms/0.05ms	0.05ms/0.05ms	0.05ms/0.05ms
Rated insulation voltage		75VDC		75VDC	
Operating temperature		-25°C +70°C		-25°C +70°C	
Storage temperature		-40°C +80°C		-40°C +80°C	
Temperature drift		<2%		<2%	
Power indicator		No		No	
Function indicator		No		No	
Reverse polarity protection		1		1	
Short-circuit protection		1		1	
		1		1	
Overload trip point	·	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/		Fe37 steel=1/stainless steel approx 0.95/brees copray 0.57	
Correction factors		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material		POM		POM	
Protection		IP67		IP67	
Shock rating					
		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC		IEC 60947-5-2 EN 55501: Class B		IEC 60947-5-2 EN 55501: Class B	
Accessary		- I		I	
Connection		PVC cable (Ø2.	7 2x0.15mm²)	PVC cable (Ø2.7 2x0.15mm²)	
Weight		Approx	25g	Approx. 25g	
vvoignt		Approx. 25g		Арргох. 20у	



Features ■ M5mm diameter ■ Sn=0.6mm,0.8mm,shielded ■ 6-12VDC operating voltage ■ Stainless steel housing case ■ Namur output ■ Cable version ■ IP67 Protection (Unit: mm) (Unit: mm) (€ Connection 2m Cable 2m Cable Shielded Mounting Shielded Shielded Shielded Namur N7CC05N0.6A N7CC05N0.8A N7CE05N0.6A N7CE05N0.8A Steel Case Namur with LED Namur PBT Case Namur with LED **General Data** Housing size M5mm M5mm Installation type Shielded Shielded Shielded Shielded 0.6mm 0.8mm 0.6mm Sensing distance(Sn: mm) 0.8mm Standard sensing object Steel 5x5x1mm Steel 5x5x1mm Steel 5x5x1mm Steel 5x5x1mm Effective sensing distance (Sr: mm) 90 ... 110% of Sn 90 ... 110% of Sn Assured operating distance(Sa: mm) . 80% of Sn . 80% of Sn Hysteresis <15% <15% Housing material Stainless steel Stainless steel 6 ... 12VDC 6 ... 12VDC Operating voltage Electrical Data 8VDC Rated operating voltage 8VDC ±10% ±10% Repeated accuracy Ripple No load current >2.2mA(Off), <1.1mA(On) >2.2mA(Off), <1.1mA(On) Max. Load current Leakage current Voltage drop Switching frequency 2000Hz 2000Hz 2000Hz 2000Hz Response time 0.05ms/0.05ms 0.05ms/0.05ms 0.05ms/0.05ms 0.05ms/0.05ms 75VDC 75VDC Rated insulation voltage -25°C ... +70°C -25°C ... +70°C Operating temperature -40°C ... +80°C -40°C ... +80°C Storage temperature Temperature drift <2% <2% Power indicator No No Function indicator No No Reverse polarity protection 1 / Short-circuit protection Overload trip point Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Correction factors Mechanical Data Sensing surface material POM POM Protection IP67 IP67 Shock rating Shock, half-sinus, 30gn, 11ms Shock, half-sinus, 30gn, 11ms Vibration rating 55Hz, 1mm ampl., 3x30min. 55Hz, 1mm ampl., 3x30min. EMC IEC 60947-5-2 EN 55501: Class B IEC 60947-5-2 EN 55501: Class B Accessary 2 nuts 2 nuts PVC cable (Ø2.7 2x0.15mm²) Connection PVC cable (Ø2.7 2x0.15mm²) Approx. 25g Weight Approx. 25g



Ø6.5 **Features** ■ 06.5mm diameter ■ Sn=0.8mm,1mm,shielded 1mm, 2mm,non-shielded • 6-12VDC operating voltage ■ Stainless steel housing case ■ Namur output ■ Cable version ■ IP67 Protection (Unit: mm) (Unit: mm) (€ Connection 2m Cable 2m Cable Shielded Mounting Shielded Shielded Shielded N7DE6.5N0.8A N7DE6.5N01A N7DF6.5N01A N7DF6.5N02A Namur Steel Case Namur with LED Namur PBT Case Namur with LED **General Data** Housing size Ø6.5mm Ø6.5mm Installation type Shielded Shielded Non-shielded Non-shielded 0.8mm Sensing distance(Sn: mm) 1mm 1mm 2mm Standard sensing object Steel 6.5x6.5x1mm Steel 6.5x6.5x1mm Steel 6.5x6.5x1mm Steel 6.5x6.5x1mm Effective sensing distance (Sr: mm) 90 ... 110% of Sn 90 ... 110% of Sn 0 ... 80% of Sn Assured operating distance(Sa: mm) . 80% of Sn Hysteresis <15% <15% Housing material Stainless steel Stainless steel 6 ... 12VDC 6 ... 12VDC Operating voltage **Electrical Data** 8VDC Rated operating voltage 8VDC ±10% Repeated accuracy Ripple No load current >2.2mA(Off), <1.1mA(On) >2.2mA(Off), <1.1mA(On) Max. Load current Leakage current Voltage drop Switching frequency 2000Hz 2000Hz 2000Hz 2000Hz Response time 0.05ms/0.05ms 0.05ms/0.05ms 0.05ms/0.05ms 0.05ms/0.05ms 75VDC 75VDC Rated insulation voltage -25°C ... +70°C -25°C ... +70°C Operating temperature -40°C ... +80°C -40°C ... +80°C Storage temperature Temperature drift <2% <2% Power indicator No No Function indicator No No Reverse polarity protection / Short-circuit protection Overload trip point Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Correction factors Mechanical Data Sensing surface material PBT PBT Protection IP67 IP67 Shock rating Shock, half-sinus, 30gn, 11ms Shock, half-sinus, 30gn, 11ms Vibration rating 55Hz, 1mm ampl., 3x30min. 55Hz, 1mm ampl., 3x30min. EMC IEC 60947-5-2 EN 55501: Class B IEC 60947-5-2 EN 55501: Class B Accessary PVC cable (Ø3 2x0.15mm²) PVC cable (Ø3 2x0.15mm²) Connection Approx. 25g Weight Approx. 25g



Features M8mm diameter Sn=1mm,shielded 2mm,non-shielded 6-12VDC operating voltage Stainless steel housing case Namur output Cable version 1P67 Protection		30 M8x1 (Unit: mm)		03 - (Unit: mm)	
C€					
Connection		2m (able	2m C	able
Mounting Steel Case	Namur	Shielded N7CE08N01A		Non-shielded N7CF08N02A	
	Namur with LED				
PBT Case	Namur Namur with LED				
General Data	Namur With LED				
Housing size		M8	mm	M8i	mm
Installation type		Shielded		Non-shielded	
Sensing distance(S	Sn: mm)	1mm		2mm	
Standard sensing of		Steel 8x8x1mm		Steel 8x8x1mm	
Effective sensing distance (Sr: mm)		90 110% of Sn		90 110% of Sn	
Assured operating distance(Sa: mm)		0 80% of Sn		0 80% of Sn	
Hysteresis		<15%		<15%	
Housing material		Stainless steel		Stainless steel	
Operating voltage		6 12VDC		6 12VDC	
Electrical Data					
Rated operating voltage		8VDC		8VDC	
Repeated accuracy	/	±10%		±10%	
Ripple		I		I	
No load current		>2.2mA(Off), <1.1mA(On)		>2.2mA(Off), <1.1mA(On)	
Max. Load current		/		I	
Leakage current			1		'
Voltage drop		/ 200011-		/ 200011-	
Switching frequency	у	2000Hz		2000Hz 0.05ms/0.05ms	
Response time	ultage	0.05ms/0.05ms	/DC	0.05ms/0.05ms 75V	/DC
Rated insulation voltage Operating temperature		75VDC -25°C +70°C		-25°C	
Storage temperature		-40°C +80°C		-40°C +80°C	
Temperature drift		<2%		<2%	
Power indicator		No No		No	
Function indicator		No		No	
Reverse polarity protection		1		1	
Short-circuit protection		I		I	
Overload trip point		l l		I	
Correction factors		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material		РВТ		PBT	
Protection		IP67		IP67	
Shock rating		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC		IEC 60947-5-2 EN 55501: Class B		IEC 60947-5-2 EN 55501: Class B	
Accessary		2 nuts		2 nuts	
Connection		PVC cable (Ø3 2x0.15mm²)		PVC cable (Ø3 2x0.15mm²)	
Weight		Approx. 34g		Approx. 34g	

J-04



Features M12mm diameter Sn=2mm,shielded 4mm,non-shielded 6-12VDC operating voltage Stainless steel housing case Nickel plated brass housing case Namur output Namur output with LED Cable version 1P67 Protection		M12x1 M12x1		M12x1 M12x1 (Unit: mm)	
	-				
Connection		2m (able	2m C	able
Mounting		Shielded		Non-shielded	
Steel Case	Namur	N7CE12N02A		N7CF12N04A	
	Namur with LED	N7CE12G02A		N7CF12G04A	
Brass Case	Namur	N7AE12N02A		N7AF12N04A	
Diass Case	Namur with LED	N7AE12G02A		N7AF12G04A	
General Data					
Housing size		M12	?mm	M12mm	
Installation type		Shielded		Non-shielded	
Sensing distance(S		2mm		4mm	
Standard sensing of		Steel 12x12x1mm		Steel 12x12x1mm	
Effective sensing distance (Sr: mm)		90 110% of Sn		90 110% of Sn	
Assured operating distance(Sa: mm)		0 80% of Sn		0 80% of Sn	
Hysteresis		<15%		<15%	
Housing material		Stainless steel, Nickel plated brass		Stainless steel, Nickel plated brass 6 12VDC	
Operating voltage		6 1	2VDC	6 1	2VDC
Electrical Data	Maga	av.	DC.	9.7	20
Rated operating voltage		8VDC ±10%		8VDC ±10%	
Repeated accuracy		10%		/	
Ripple No load current		>2.2mA(Off), <1.1mA(On)		>2.2mA(Off), <1.1mA(On)	
Max. Load current		- 2.2.111 (OH), -1.1111 (OH)		- 2.2.m. (On), -1. m. (On)	
Leakage current		1		1	
Voltage drop		1		1	
Switching frequence	у	1000Hz		500Hz	
Response time		0.1ms/0.1ms		0.2ms/0.2ms	
Rated insulation vo	oltage	75VDC		75VDC	
Operating tempera		-25°C +70°C		-25°C +70°C	
Storage temperature		-40°C +80°C		-40°C +80°C	
Temperature drift		<2%		<2%	
Power indicator		No		No	
Function indicator		No/Yes		No/Yes	
Reverse polarity protection		l l		I	
Short-circuit protection		1		I	
Overload trip point		/ / COT to 1 4/1/1 / COT TO 1		I	
Correction factors		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material		PBT		PBT	
Sensing surface in		IP67		IP67	
Protection		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
		Shock, half-sin	us, 30gn, 11ms	Oncok, nan om	
Protection			us, 30gn, 11ms mpl., 3x30min.	55Hz, 1mm ar	
Protection Shock rating		55Hz, 1mm a	-		npl., 3x30min.
Protection Shock rating Vibration rating		55Hz, 1mm a	mpl., 3x30min. N 55501: Class B	55Hz, 1mm ar	npl., 3x30min. N 55501: Class B
Protection Shock rating Vibration rating EMC		55Hz, 1mm al IEC 60947-5-2 E	npl., 3x30min. N 55501: Class B uts	55Hz, 1mm ai IEC 60947-5-2 Ei	npl., 3x30min. N 55501: Class B uts

J-05



Features ■ M18mm diameter ■ Sn=5mm,shielded 8mm,non-shielded ■ 6-12VDC operating voltage ■ Stainless steel housing case Nickel plated brass housing case ■ Namur output Namur output with LED Cable version ■ IP67 Protection (Unit: mm) (Unit: mm) (€ Connection 2m Cable 2m Cable Shielded Mounting Non-shielded N7CE18N05A N7CF18N08A Namur Steel Case Namur with LED N7CE18G05A N7CF18G08A Namur N7AE18N05A N7AF18N08A **Brass Case** Namur with LED N7AE18G05A N7AF18G08A **General Data** Housing size M18mm M18mm Installation type Shielded Non-shielded Sensing distance(Sn: mm) 5mm 8mm Standard sensing object Steel 18x18x1mm Steel 24x24x1mm Effective sensing distance (Sr: mm) 90 ... 110% of Sn 90 ... 110% of Sn Assured operating distance(Sa: mm) . 80% of Sn . 80% of Sn Hysteresis <15% <15% Housing material Stainless steel/Nickel plated brass Stainless steel/Nickel plated brass 6 ... 12VDC 6 ... 12VDC Operating voltage Electrical Data Rated operating voltage 8VDC 8VDC ±10% Repeated accuracy Ripple No load current >2.2mA(Off), <1.1mA(On) >2.2mA(Off), <1.1mA(On) Max. Load current Leakage current Voltage drop Switching frequency 500Hz 300Hz Response time 0.2ms/0.2ms 0.5ms/0.5ms 75VDC 75VDC Rated insulation voltage -25°C ... +70°C -25°C ... +70°C Operating temperature -40°C ... +80°C -40°C ... +80°C Storage temperature Temperature drift <2% <2% Power indicator No No Function indicator No/Yes No/Yes Reverse polarity protection 1 Short-circuit protection Overload trip point Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Correction factors Mechanical Data Sensing surface material PBT PBT Protection IP67 IP67 Shock rating Shock, half-sinus, 30gn, 11ms Shock, half-sinus, 30gn, 11ms Vibration rating 55Hz, 1mm ampl., 3x30min. 55Hz, 1mm ampl., 3x30min. EMC IEC 60947-5-2 EN 55501: Class B IEC 60947-5-2 EN 55501: Class B Accessary 2 nuts 2 nuts Connection PVC cable (Ø5 2x0.34mm²) PVC cable (Ø5 2x0.34mm²) Weight Approx. 126g Approx. 126g



Features M30x1.5 M30x1.5 M30x1.5 M30x1.5 ■ M30mm diameter ■ Sn=10mm,shielded 15 15mm,non-shielded ■ 6-12VDC operating voltage ■ Stainless steel housing case Nickel plated brass housing case ■ Namur output Namur output with LED Cable version ■ IP67 Protection (Unit: mm) (Unit: mm) (€ Connection 2m Cable 2m Cable Shielded Mounting Non-shielded N7CE30N10A N7CF30N15A Namur Steel Case Namur with LED N7CE30G10A N7CF30G15A N7AE30N10A Namur N7AF30N15A **Brass Case** Namur with LED N7AE30G10A N7AF30G15A **General Data** Housing size M30mm M30mm Installation type Shielded Non-shielded 10mm Sensing distance(Sn: mm) 15mm Standard sensing object Steel 30x30x1mm Steel 45x45x1mm Effective sensing distance (Sr: mm) 90 ... 110% of Sn 90 ... 110% of Sn Assured operating distance(Sa: mm) . 80% of Sn . 80% of Sn Hysteresis <15% <15% Housing material Stainless steel/Nickel plated brass Stainless steel/Nickel plated brass 6 ... 12VDC 6 ... 12VDC Operating voltage Electrical Data Rated operating voltage 8VDC 8VDC ±10% Repeated accuracy Ripple No load current >2.2mA(Off), <1.1mA(On) >2.2mA(Off), <1.1mA(On) Max. Load current Leakage current Voltage drop Switching frequency 300Hz 100Hz Response time 0.5ms/0.5ms 1ms/1ms 75VDC 75VDC Rated insulation voltage -25°C ... +70°C -25°C ... +70°C Operating temperature -40°C ... +80°C -40°C ... +80°C Storage temperature Temperature drift <2% <2% Power indicator No No Function indicator No/Yes No/Yes Reverse polarity protection Short-circuit protection Overload trip point Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Correction factors Mechanical Data Sensing surface material PBT PBT Protection IP67 IP67 Shock rating Shock, half-sinus, 30gn, 11ms Shock, half-sinus, 30gn, 11ms Vibration rating 55Hz, 1mm ampl., 3x30min. 55Hz, 1mm ampl., 3x30min. EMC IEC 60947-5-2 EN 55501: Class B IEC 60947-5-2 EN 55501: Class B Accessary 2 nuts 2 nuts Connection PVC cable (Ø5.8 2x0.5mm²) PVC cable (Ø5.8 2x0.5mm²) Weight Approx. 185g Approx. 185g



Features ■ Q16x28x10mm diameter ■ Sn=1mm, shielded 2mm,non-shielded ■ 6-12VDC operating voltage ■ PBT Resin housing case ■ Namur output ■ Cable version ■ IP67 Protection (Unit: mm) (Unit: mm) (€ Connection 2m Cable 2m Cable Mounting Shielded Non-shielded Shielded Non-shielded Namur Steel Case Namur with LED N7EE16N01A N7EF16N02A N7EK16N01A N7EX16N02A Namur PBT Case Namur with LED **General Data** Housing size Q16x28x10mm Q16x28x10mm Shielded Shielded Non-shielded Installation type Non-shielded Sensing distance(Sn: mm) 1mm 2_{mm} 1mm 2mm Standard sensing object Steel 16x16x1mm Steel 16x16x1mm Steel 16x16x1mm Steel 16x16x1mm Effective sensing distance (Sr: mm) 90 ... 110% of Sn 90 ... 110% of Sn 0 ... 80% of Sn Assured operating distance(Sa: mm) . 80% of Sn Hysteresis <15% <15% Housing material PRT Resin PBT Resin 6 ... 12VDC 6 ... 12VDC Operating voltage Electrical Data 8VDC Rated operating voltage 8VDC ±10% Repeated accuracy Ripple No load current >2.2mA(Off), <1.1mA(On) >2.2mA(Off), <1.1mA(On) Max. Load current Leakage current Voltage drop Switching frequency 2000Hz 1000Hz 2000Hz 1000Hz Response time 0.05ms/0.05ms 0.1ms/0.1ms 0.05ms/0.05ms 0.1ms/0.1ms 75VDC 75VDC Rated insulation voltage -25°C ... +70°C -25°C ... +70°C Operating temperature -40°C ... +80°C -40°C ... +80°C Storage temperature Temperature drift <2% <2% Power indicator No No Function indicator No No Reverse polarity protection / Short-circuit protection Overload trip point Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Correction factors Mechanical Data Sensing surface material PBT PBT Protection IP67 IP67 Shock rating Shock, half-sinus, 30gn, 11ms Shock, half-sinus, 30gn, 11ms Vibration rating 55Hz, 1mm ampl., 3x30min. 55Hz, 1mm ampl., 3x30min. EMC IEC 60947-5-2 EN 55501: Class B IEC 60947-5-2 EN 55501: Class B Accessary PVC cable (Ø3 2x0.15mm²) PVC cable (Ø3 2x0.15mm²) Connection Weight Approx. 55g Approx. 55g