

# IR12V.P04S-F55.NO1Z.9BCU/E011

Inductive proximity switch - designed for reliability

Article number: 11197189

#### Overview

- 4 mm
- NPN make function (NO)
- cable, 2 m
- -40 ... 85 °C
- Protection class IP68 / IP69K



Picture similar





Technical data	
General data	
Mounting type	Flush
Special type	Vehicle
Nominal sensing distance Sn	4 mm
Hysteresis	3 10 % of Sr
Output indicator	LED red
Approvals/certificates	EN 60947-5-2:2007, Sec 8.6 EN 13309:2010 <sup>1) 3)</sup> EN ISO 14982:2009 <sup>1) 2)</sup> ISO 13766:2006 <sup>1)</sup>
Electrical data	
Switching frequency	2 kHz
Voltage supply range +Vs	7 48 VDC
Current consumption max. (no load)	10 mA
Output circuit	NPN make function (NO)
Voltage drop Vd	< 2 VDC
Output current	< 200 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Off-Highway Electromagnetic immunity	ISO 11452-4: 200mA ISO 11452-2: 100V/m Based on UN / ECE R10 Rev 5 ch. 6.8 (no ECE type approval available)

Electrical data	
Off-Highway Emission	EN 55011 Based on UN / ECE R10 Rev 5 ch. 6.5, 6.6 (no ECE type approval available)
Conducted inteference	ISO 7637-2, ISO 16750-2, details see section "Test pulses"
Mechanical data	
Туре	Cylindrical threaded
Material (sensing face)	PBT
Housing material	Brass nickel plated
Dimension	12 mm
Housing length	55 mm
Connection types	Cable, L=2 m
Tightening torque max.	15 Nm (A: 10,5 Nm, B: 10,5 Nm)
Ambient conditions	
Operating temperature	-40 +85 °C
Protection class	IP 68 (sensing face/sensor) IP 68 (1,5 m, 24 h) IP 69K (sensing face)

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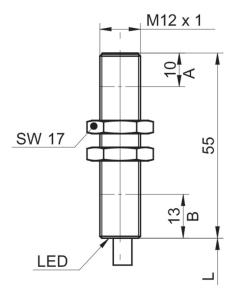
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#### Remarks

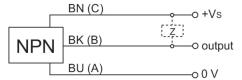
- 1) only for use in machines with centralized load dump suppression (58 V DC)
- 2) shall not be used in the direct control and modification of the state of function of the machine
- 3) not for operations during engine start phase in 12 VDC / 24 VDC vehicle power

Test pulses							
Test pulse (ISO 7637-2, ISO 16750-2)	1	2a	2b	3a	3b	4	5b
Severity level	IV	Ш	IV	Ш	Ш	III	
Functional status (12V/24V System)	С	Α	С	Α	Α	C/B	Α

#### **Dimension drawing**



### **Connection diagram**



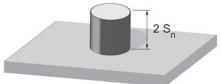


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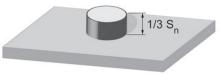
### Correction factors for different mounting situation (approx.)



100 %

100 % 100 %





Mounting material	Correction factor
Mild steel	105%
Stainless steel	100 %
Aluminum	95 %



Mounting material	Correction factor
Mild steel	115 %
Stainless steel	95 %
Aluminum	90 %

## **Mounting instructions**

Mounting material

Stainless steel

Mild steel

Aluminum

