

# IR12V.P04S-F55.NO1Z.9BDU/0035\_E011

Inductive proximity switch - designed for reliability

Article number: 11177636

#### Overview

- 4 mm
- NPN make function (NO)flylead connector DT04-3P 3 pin
- -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 Electromag- netic 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	Flylead connector DT04-3P 3 pin, L=350 mm
Connection types  Tightening torque max.	
	mm
Tightening torque max.	mm
Tightening torque max.  Ambient conditions	mm 15 Nm (A: 10,5 Nm, B: 10,5 Nm)



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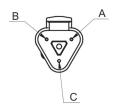
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#### Remarks

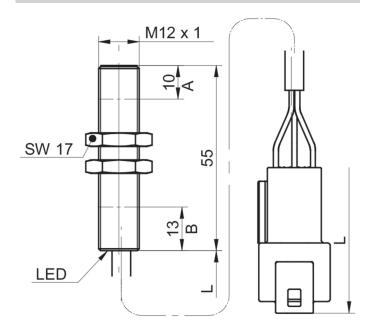
- 1) only for use in machines with centralized load dump suppression (58 V DC)
- 2) shall not be used in the direct control and modification of the state of function of the machine
- 3) not for operations during engine start phase in 12 VDC / 24 VDC vehicle power

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

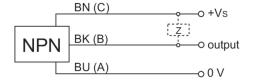
### Pin assignment



#### **Dimension drawing**



#### Connection diagram



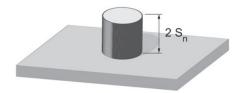


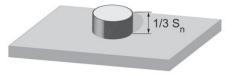
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### Correction factors for different mounting situation (approx.)







Mounting material	Correction factor
Mild steel	100 %
Stainless steel	100 %
Aluminum	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**

