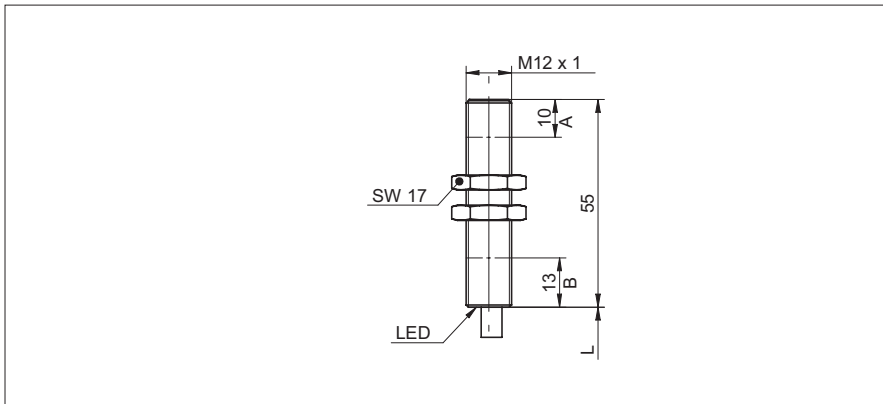


Inductive sensor

IR12V.P04S-11197189

Mat.-No.: 11197189

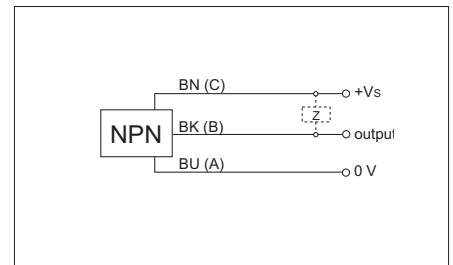
dimension drawing



general data

mounting type	flush
nominal sensing distance S_n	4 mm
hysteresis	3 ... 10 % of S_r
output indicator	LED red
approvals/certificates	EN 60947-5-2:2007, Sec 8.6 EN 13309:2010 ^{1) 3)} EN ISO 14982:2009 ^{1) 2)} ISO 13766:2006 ¹⁾

connection diagram



electrical data

switching frequency	< 2 kHz
voltage supply range +Vs	7 ... 48 V (12 V / 24 V vehicle power)
current consumption max. (no load)	10 mA
output circuit	NPN normally open (NO)
voltage drop V_d	< 2 VDC
output current	< 200 mA
short circuit protection	yes
reverse polarity protection	yes
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)
Emission	EN 55011 Based on UN / ECE R10 Rev 5 ch. 6.5, 6.6 (no ECE Type Approval available)

- 1) only for use in machines with centralized load dump suppression (58 V)
- 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 V Systems

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

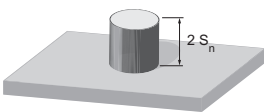
Inductive sensor

IR12V.P04S-11197189

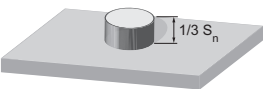
Mat.-No.: 11197189

mechanical data	
type	cylindrical threaded
housing material	brass nickel plated
dimension	12 mm
housing length	55 mm
connection types	cable, jacket: PUR \varnothing 5,7 wire: 3 x 0,75 mm ² , 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 69K (front part) / IP 68 (1,5 m, 24 h)

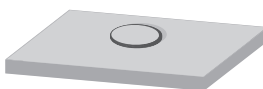
correction factors for different mounting situations (approximate values)



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

