

design **M8x1**

operating range flush 3mm



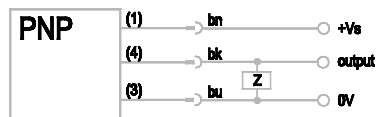
- ✓ one-piece stainless steel housing
- ✓ high pressure resistance up to 100bar
- ✓ high sensing ranges on steel, brass and aluminum
- ✓ outstanding impermeability
- ✓ LED-display for assured switching range
- ✓ M8-cable connector

**up to 3-fold norm switching distance**  
**active surface made from metal**


**TECHNICAL DATA**
**IC08E043**

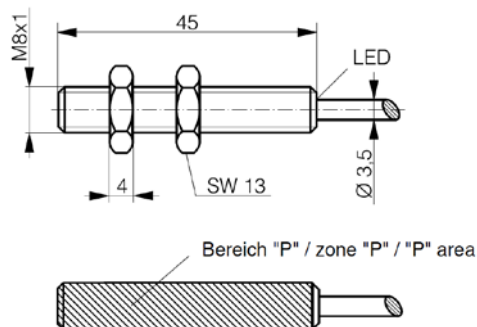
operating voltage $U_B$	10 ... 30V DC, short-circuit and reverse pol. protected	
permissible residual ripple	≤ 20%	
output current	≤ 200mA	
voltage drop	≤ 2V at 200mA	
no-load current	≤ 10mA	
reverse leakage current of output	≤ 0.1mA	
switching frequency	≤ 1000Hz	
power-on delay time	40msec	
nominal switching distance $S_n$	3mm	
hysteresis	≤ 20%	
norm trimming plate	ST 37, 9 x 9 x 1mm	
repeatability	≤ 5% of $S_r$ ( $U_B = 20...30V$ , $T_A = 23°C ± 5°C$ )	
pressure resistance in P-area	100bar	
shocks and vibrations	according IEC 60947-5-2/7.4	
EMC-protection	IEC 60255-5:	5kV
	IEC 61000-4-2:	level 2
	IEC 61000-4-3:	level 3
	IEC 61000-4-4:	level 2
system of protection	IP68	
ambient temperature	-25 ... +70°C	
temperature drift of $S_r$	≤ 10%	
housing material	stainless steel 1.4305	
material thickness (active face)	0.25mm	
electrical connection	300mm PUR cable / M12-connector	
max. line length	300m	
correction factors	steel FE 360:	1.0
	copper:	0.9
	aluminum:	1.0
	brass:	1.35
	stainless steel 1mm thick:	0.3
	stainless steel 2mm thick:	0.6

### connection:

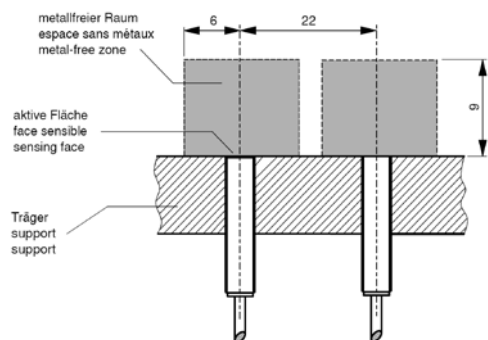


wire colors: bn = brown (1), bu = blue (3), bk = black (4)

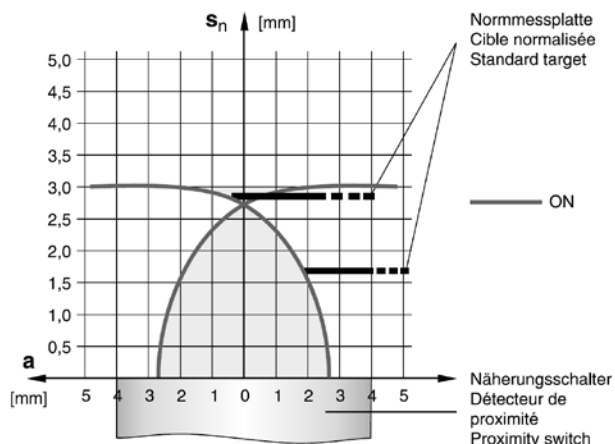
### dimensional drawing:



### mounting parameters:



### response curve:



**LED-display:** The LED lights up as soon as an object enters the assured switching range ( $S < 80\%$ ). In the range of  $80\% < S < 100\%$  the LED flashes.

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**Warning:** Never use these devices in applications where the safety of a person depends on their functionality.