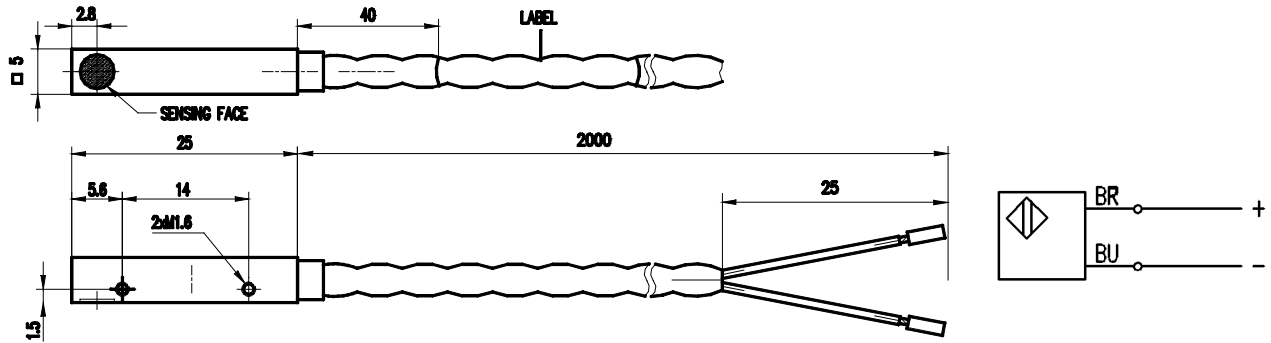


# Inductive Proximity Switches Vacuum resistant sensor

# HYTECH

BALLUFF GROUP

HW19366 128606  
921FS0.8UV-Z925  
5x5 L=25mm NAMUR  
S<sub>n</sub>=0.8mm  
Shielded  
CE



## Specifications

### Common Data

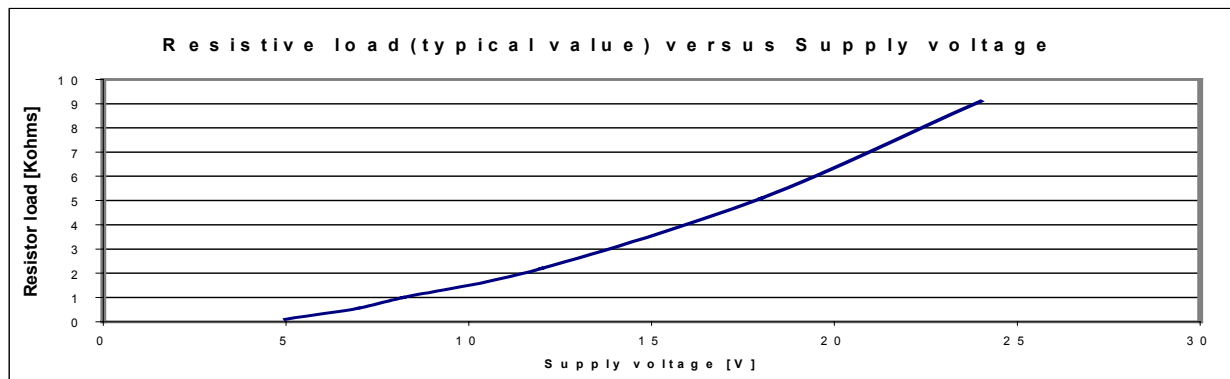
Real switching distance (S <sub>r</sub> ) (@8.2VDC/R <sub>load</sub> =1KΩ)	0.8mm -10%/+20%
Assured operating distance (S <sub>a</sub> ) (@8.2VDC/R <sub>load</sub> =1KΩ)	0...0.65mm
Hysteresis (@8.2VDC/R <sub>load</sub> =1KΩ)	< 5% S <sub>r</sub>
Repeatability	± 0.01mm
Operating temperature range	-25...70°C
Max operating frequency	2 KHz
Supply voltage (including ripple)*	5...30 V
Max Current (@ 8.2VDC/R <sub>load</sub> =1KΩ)	10 mA
Nominal switching current (@8.2VDC/R <sub>load</sub> =1KΩ)	1.65 mA

### Mechanical Data

Housing size	5x5mm L=25mm
Housing material	Stainless steel
Caps material	POM black
Degree of protect.	IP67
Target size	4x4mm (St37)
Cable type	Teflon 2x0.14mm <sup>2</sup>
Cable length	2.0m

### Table with sensing states (@ 8.2VDC/R<sub>Load</sub> = 1KΩ)

State	Output Current	Distance of Nominal Target
Open	I short ≤ 0.30[mA]	N.A.
Short	I short ≥ 6.00[mA]	N.A.
Metal Sensed	0.30[mA] ≤ I sensed ≤ 1.65[mA]	0 < S [mm] ≤ Su(min)
No metal Sensed	1.65[mA] ≤ I sensed ≤ 3.00[mA]	Su(max) ≤ S [mm]
Target on Sensor face	0.30[mA] ≤ I sensed ≤ 1.00[mA]	S [mm] = 0
Target far away	3.00[mA] ≤ I sensed ≤ 6.00[mA]	S [mm] ≥ 3X S <sub>n</sub>
Indefinite zone	1.65 [mA]	0.65mm < Su < 1.05 mm



\* R<sub>(load)</sub> must be adapted in function of the working voltage

Hy-Tech AG  
Portstrasse 35  
CH-2555 Brügg  
TEL: ++41 (0) 32 366 66 77  
FAX: ++41 (0) 32 366 66 78  
E-mail: hytech@hytech.ch

All characteristics at 25°C  
May be subject to changes without notice  
REV. C / 3.04.03

PS19366 14/07/03