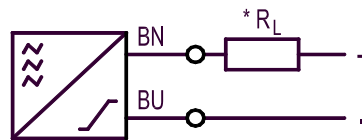
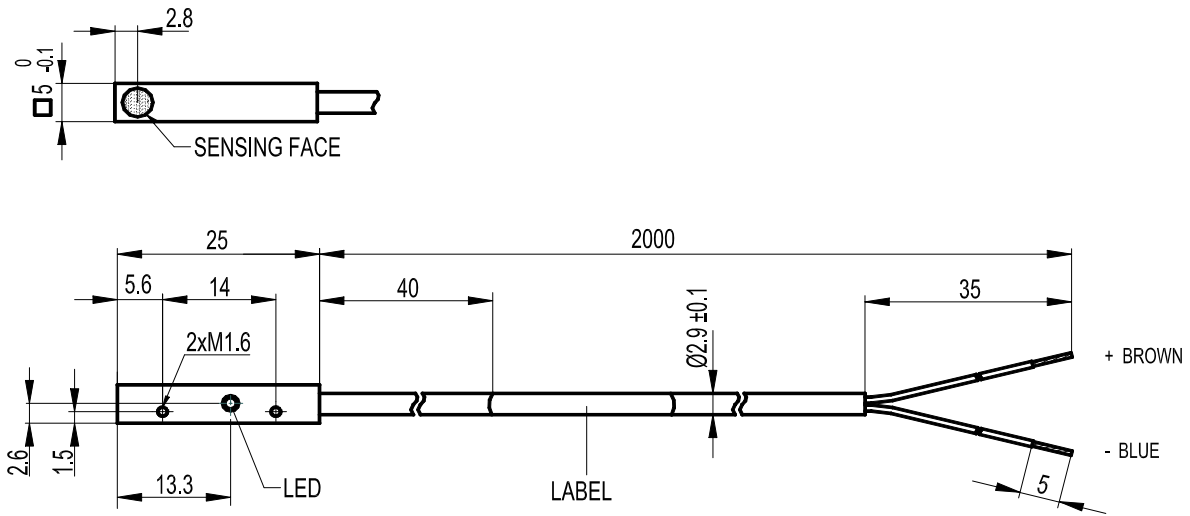


Inductive proximity switch
5 x 5 x 25mm NAMUR LED
ASML 12 NC 4022 438 22876

PROX 921FS0.8UL-Z925
IEC-Code: I1C05SD1
 $s_n = 0.8 \text{ mm}$ / flush
Namur



Sensing Data

| | | |
|---|----------------|---|
| Effective operating distance s_r (@8.2V/ $R_L=1k\Omega$) | [mm] | 0.8 -10%+20% |
| Assured operating distance s_a (@8.2V/ $R_L=1k\Omega$) | [mm] | 0...0.65 |
| Nominal switching current (@8.2V/ $R_L=1k\Omega$) | [mA] | 1.65 |
| Differential travel H (@8.2V/ $R_L=1k\Omega$) | [% von s_r] | < 5 |
| Repeat accuracy R | [mm] | ≤ 0.01 |
| Ambient temperature range T_a | [°C] | -25...75 |
| Temperature drift | [% von s_r] | ≤ 10 |
| Frequency of operating cycles f at U_e | [Hz] | 2000 |
| Function- / supply voltage indication | | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |

Electrical Data

| | | |
|--|---------------|--------------------------|
| Rated operational voltage U_e | [V] | 8.2 DC |
| Supply voltage U_B | [V] | 5...30 DC* |
| incl. ripple | [% of U_e] | ≤ 10 |
| Rated insulation voltage U_i | [V] | 75 DC |
| Current consumption at $s_r=0/ s_r=\infty$ | [mA] | $\leq 1/ \geq 3$ |
| Protected against polarity reversal | | <input type="checkbox"/> |
| Rated series resistance (@8.2V) | [Ω] | 1000 |
| Allowed series resistance | [Ω] | 550...2000 |

* R_L must be adapt in function of the working voltage

Document 844658-126

Name: Stauffer, Date: 09.04.2008

Specification subject to change without notice ecn.-no.04-108231,

www.hytech.ch

Exclusive distributor: Sentech Sensor Technology B.V., Netherlands

www.sentech.nl



Mechanical Data

| | | |
|---------------------------------------|--------------------|--------------------|
| Housing material | | Aluminium anodised |
| Torque (2xM1.6) | [Nm] | ≤ 0.08 |
| Material of sensing face | | POM |
| Connection | | Cable PVC UL94/V1 |
| No of wires x conductor cross section | [mm ²] | 2 x 0.14 |
| Degree of protection | | IP67 |
| Insulation Class | | - |
| Polution degree | | 3 |

Rated shock: half- sinus, 30gn, 11ms

Rated vibration environment: 55Hz, 1mm amplitude, 3 x 30min



Listed 81U2 IND.CONT.EQ.
for use in the secondary of a class 2 source of supply

Notes

All characteristics at 25°C

- 1) Current open line $\leq 0.30\text{mA}$
- 2) Current short circuit $\geq 6.0\text{mA}$
- 3) Current with metal on the sensing face $S[\text{mm}]=0$ $\geq 0.30/ \leq 1.0\text{mA}$
- 4) Current without metal on the sensing face $S[\text{mm}] \geq 3X S_n$ $\geq 3.00/ \leq 6.0\text{mA}$

Definitions see general Balluff catalog www.balluff.de

If not otherwise noted, ratings according to IEC 60947-5-2 (EN 60947-5-2)

