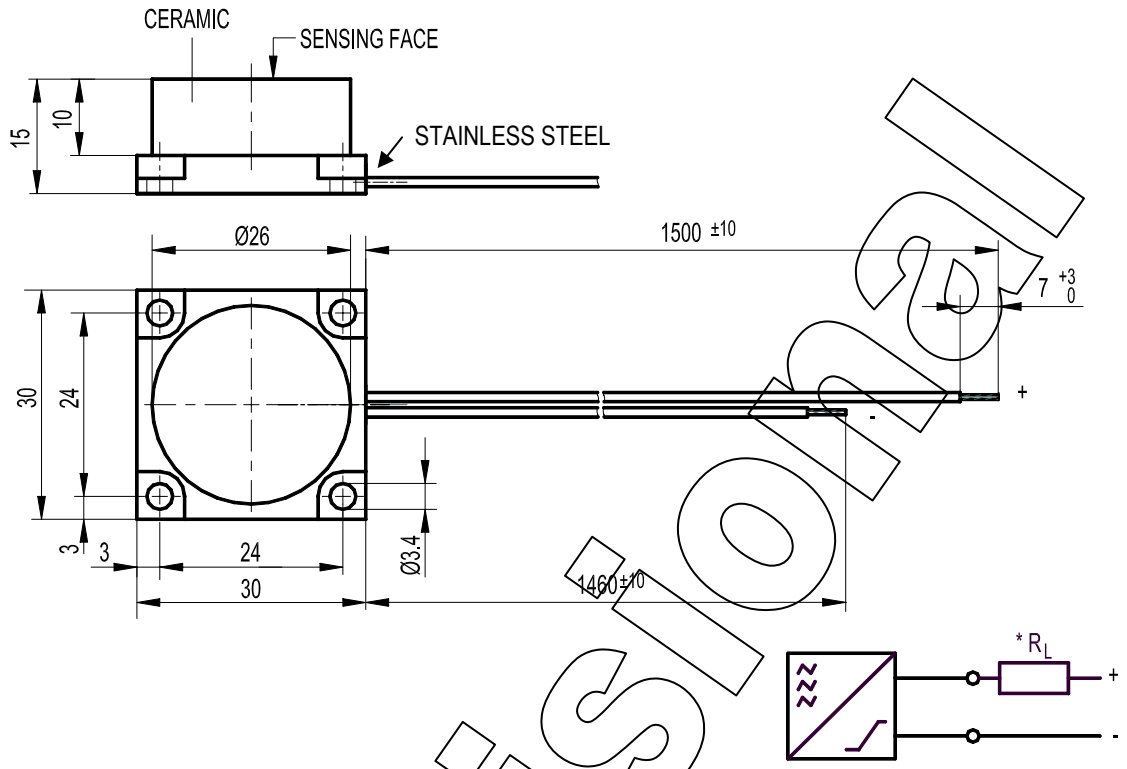
Inductive proximity switch
For vacuum applications
30 x 30 x 15mm
ASML 12NC 4022.628.00098

PROX 921FS12UV-Z925
IEC-Code:
s_n = 12 mm / no flush
Namur



Provisional

Sensing Data		
Effective operating distance s_r (@8.2V/R_L=1kΩ)	[mm]	12 -5% +10% **tbv
Assured operating distance s_a (@8.2V/R_L=1kΩ)	[mm]	0...11.2 **tbv
Nominal switching current (@8.2V/R_L=1kΩ)	[mA]	1.65
Differential travel H (@8.2V/R_L=1kΩ)	[% von s_r]	< 5
Repeat accuracy R	[% von s_r]	≤ 3
Ambient temperature range T_a	[°C]	-20...25
Temperature drift	[% von s_r]	≤ 2
Frequency of operating cycles f at U_e	[Hz]	250
Function- / supply voltage indication		☐☐

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]	≤ 1/ ≥ 4
Protected against polarity reversal		☐
Rated series resistance (@8.2V)	[Ω]	1000
Allowed series resistance	[Ω]	550...2000

Mechanical Data		
Housing material		Stainless steel 1.4404
Torque (4xM3)	[Nm]	
Material of sensing face		Ceramic (MACOR)
Connection		Hook up wire for vacuum application GSC-01-25484-01 (GORE)
Conductor cross section	[mm²]	0.09
Degree of protection		IP65
Insulation Class		
Polution degree		3
Potting material		Tra-Con Tra-Cast 3103

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

Bake out possibility at 70°C

Applying "Clean Production" method:
- The complete assembly work is realized by workers using gloves
- All parts were cleaned/washed in Ultrasonic (Safewash)
- The assembly work takes place in a dust-reduced environment
- All drying-cycles were realized in dust-reduced oven
- Products are packed in special dust-free package

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

* R_L must be adapt in function of the working voltage
** tbv = to be verified

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Name: Chassot, Date: 06.11.2008
Specification subject to change without notice ecn.-no. -

www.hytech.ch
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