

- CE SP[®] US c UL[®] US

Technical drawing of a mechanical part, showing front and side views with dimensions.

Front View (Top):

- Overall width: 50
- Overall height: 25
- Distance from left edge to center of the large circular feature: 15
- Distance from left edge to center of the small circular feature: 10
- Distance from the large circular feature to the small circular feature: 42
- Distance from the small circular feature to the right edge: 7.5
- Distance from the small circular feature to the right edge (bottom view): 4.2
- Distance from the small circular feature to the right edge (top view): 15

Side View (Bottom):

- Overall width: 10
- Overall height: 6

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	S _n	5 mm
Installation		flush
Output polarity		DC
Assured operating distance	S _a	0 ... 4.05 mm
Reduction factor r _{Al}		0.3
Reduction factor r _{Cu}		0.2
Reduction factor r ₃₀₄		0.6
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	10 ... 30 V DC
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected

Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3 \text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μA
No-load supply current	I_0	$\leq 15 \text{ mA}$
Time delay before availability	t_v	$\leq 10 \text{ ms}$
Functional safety related parameters		
MTTF _d		820 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cabl PVC , 2 m
Core cross-section		0.34 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Cable diameter		4.6 mm $\pm$ 0.2 mm
Bending radius		> 10 x cable diameter

Connection

