



T-slot cylinder sensor with reed contact MR0107

URL:https://www.sxplc.com/t-slot-cylinder-sensor-with-reed-contact-mr0107

Product data sheet

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Electrical design	PNP/NPN		
Output function	normally open		
imensions [mm]	30.5 x 5 x 6.5		
ectrical data			
Operating voltage [V]	550 AC / 560 DC; (UL supply class 2: 560 DC / 53	80 AC)	
Protection class	III		
Reverse polarity protection	yes		
Reverse polarity protection	yes		
utputs			
Electrical design	PNP/NPN		
Output function	normally open	normally open	
Max. voltage drop switching output DC [V]	5		
Max. voltage drop switching output AC [V]	5		
Permanent current rating of switching output AC [mA]		100; (External protective circuit for inductive load (valve, contactor, etc.) necessary.)	
Permanent current rating of switching output DC [mA]	100; (External protective circuit for inductive load (valve, contactor, etc.) necessary.)		
		contactor, etc.) necessary.)	
Switching frequency AC [Hz]	1000		
Switching frequency DC [Hz]	1000		
Max. switching power [W]	10		
Short-circuit protection	no		
Short-circuit proof	no		
Overload protection	no		
lonitoring range			
Magnetic sensitivity [mT]	2.1		
Travel speed [m/s]	10	10	
ccuracy / deviations			
ccuracy / deviations			
Hysteresis [mm]	1		
Repeatability [mm]	-0.20.2		
Reaction times			
Max. fall time [ms]	0.1		
Max. make time incl. bounce [ms]	0.6		
	05.70		
Ambient temperature [°C]	-2570 IP 65; IP 67		
Ambient temperature [°C] Protection			
Operating conditions Ambient temperature ["C] Protection Tests / approvals	IP 65; IP 67		
Ambient temperature ["C] Protection	IP 65, IP 67 EN 61000-4-2 ESD	- CD / 8 kV AD 10 V/m	
Ambient temperature [*C] Protection ests / approvals	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst	10 V/m 2 kV	
Ambient temperature [°C] Protection ests / approvals	IP 65, IP 67 EN 61000-4-2 ESD EN 61000-4-3 Hr adiated EN 61000-4-4 Burst EN 61000-4-5 Surge	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm	
Ambient temperature [°C] Protection ests / approvals	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst	10 V/m 2 kV	
Ambient temperature [°C] Protection ests / approvals	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-6 HF conducted	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V	
Ambient temperature [°C] Protection ests / approvals EMC	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55011 11303	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V	
Ambient temperature [*C] Protection ests / approvals EMC MTTF [years]	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55011	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection EMC MTTF [years] UL approval	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55011 11303	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection ests / approvals EMC MTTF [years] UL approval dechanical data	IP 65; IP 67 EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55011 11303	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection ESTS / approvals EMC MITTF [years] UL approval dechanical data Weight [g]	EN 61000-4-2 ESD EN 61000-4-3 Hr radiated EN 61000-4-8 Hrst EN 61000-4-8 Urst EN 61000-4-6 HF conducted EN 55011 11303 UL approval number	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection ESTS / approvals EMC MITTF [years] UL approval dechanical data Weight [g] Mounting	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-5 HF conducted EN 55011 11303 UL approval number	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection ESTS / approvals EMC MTTF [years] UL approval Iechanical data Weight [g] Mounting Cylinder type	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-8 Hrst EN 61000-4-8 Urst EN 61000-4-6 HF conducted EN 65011 11303 UL approval number 21.3 flush mountable T-slot cylinders	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection BIST / approvals EMC MTTF [years] UL approval Idechanical data Weight [g] Mounting Cylinder type Dimensions [mm]	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-8 Hrst EN 61000-4-8 Urst EN 61000-4-6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection BIST (approvals) EMC MTTF (years) UL approval Idechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 91000-4-8 Hrst EN 91000-4-8 Hrst EN 91000-4-8 Urst EN 91000-4-6 HF conducted EN 95011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection BIST (approvals) EMC MTTF (years) UL approval Idechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-8 Hrst EN 61000-4-8 Urst EN 61000-4-6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection Lests / approvals EMC MTTF (years] UL approval Lechanical data Weight [a] Mounting Cyclinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio]	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 91000-4-8 Hrst EN 91000-4-8 Hrst EN 91000-4-8 Urst EN 91000-4-6 HF conducted EN 95011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection Bests / approvals EMC MTTF [years] JU approval Idechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] isplays / operating elements	EN 61000-4.2 ESD EN 61000-4.3 HF radiated EN 61000-4.3 HF radiated EN 61000-4.6 Hr surge EN 61000-4.6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel < 40	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection Bests / approvals EMC MTTF [years] JU approval Idechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] isplays / operating elements	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 91000-4-8 Hrst EN 91000-4-8 Hrst EN 91000-4-8 Urst EN 91000-4-6 HF conducted EN 95011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection Lests / approvals EMC MTTF [years] UL approval dechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] sisplays / operating elements Display	EN 61000-4.2 ESD EN 61000-4.3 HF radiated EN 61000-4.3 HF radiated EN 61000-4.6 Hr surge EN 61000-4.6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel < 40	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B	
Ambient temperature [*C] Protection Lests / approvals EMC MTTF [years] UL approval Hechanical data Weight [a] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] Displays / operating elements Displays / operating elements Display	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55001 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA, Fastening clamp: stainless steel < 40 Switching status	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Lests / approvals EMC MTTF (years] UL approval Lechanical data Weight [a] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] isplays / operating elements Display Lectrical connection	EN 61000-4.2 ESD EN 61000-4.3 HF radiated EN 61000-4.3 HF radiated EN 61000-4.6 Hr surge EN 61000-4.6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel < 40	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Bests / approvals EMC MTTF [years] UL approval Idechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] isplays / operating elements Display Jectrical connection Required protection	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55001 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA, Fastening clamp: stainless steel < 40 Switching status	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection BIST / approvals EMC MITTF (years] UL approval Judechanical data Weight [a] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] isplays / operating elements Display Judectrical connection Required protection Coccessories	EN 61000-4-2 ESD	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection BIST / approvals EMC MITTF (years] UL approval Judechanical data Weight [a] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] isplays / operating elements Display Judectrical connection Required protection Coccessories	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted EN 55001 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA, Fastening clamp: stainless steel < 40 Switching status	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Sests / approvals EMC MTTF [years] JL approval JL appr	IP 65; IP 67	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection lests / approvals EMC MTTF [years] UL approval dechanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] pisplays / operating elements Displays / operating elements Display clectrical connection Required protection Accessories Items supplied	IP 65; IP 67	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Lests / approvals EMC MTTF [years] UL approval UL approval Hechanical data Weight [a] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] Displays / operating elements Displays / operating elements Displays / deprivation Required protection Cocessories Items supplied	IP 65; IP 67	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Lests / approvals EMC MTTF [years] UL approval UL approval Hechanical data Weight [a] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] Displays / operating elements Displays / operating elements Displays / deprivation Required protection Cocessories Items supplied	IP 65; IP 67	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection ests / approvals	IP 65; IP 67	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Bests / approvals EMC MTTF [years] UL approval Bechanical data Weight [a] Mounting Cyclinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] Bisplays / operating elements Displays / operating elements Display Bectrical connection Required protection Coccessories Tems supplied Emarks Remarks	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-3 HF radiated EN 61000-4-6 HF conducted EN 65001-4-6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel < 40 Switching status miniature fuse to IEC80127-2 sheet 1; ≤ 0,175 A; fast action rubber memory stop: 1 cable clip: 1 No LED function in case of polarity reversal in DC operation UL - Class 2 source required	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection Sets / approvals EMC ATTF [years] JL approval echanical data Veight [g] Adounting Sylinder type Dimensions [mm] Anterial Switching cycles when connected to PLC [Mio] Isplays / operating elements Displays / operating elements Displays / ectrical connection Required protection coessories emarks Remarks Pack quantity	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-3 HF radiated EN 61000-4-6 HF conducted EN 65001-4-6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel < 40 Switching status miniature fuse to IEC80127-2 sheet 1; ≤ 0,175 A; fast action rubber memory stop: 1 cable clip: 1 No LED function in case of polarity reversal in DC operation UL - Class 2 source required	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	
Ambient temperature [*C] Protection asts / approvals EMC MTTF [vears] JL approval echanical data Weight [g] Mounting Cylinder type Dimensions [mm] Material Switching cycles when connected to PLC [Mio] slisplays / operating elements Display lectrical connection Required protection cocessories tems supplied emarks Remarks	EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-3 HF radiated EN 61000-4-6 HF conducted EN 65001-4-6 HF conducted EN 55011 11303 UL approval number 21.3 flush mountable T-slot cylinders 30.5 x 5 x 6.5 housing: PA; Fastening clamp: stainless steel < 40 Switching status miniature fuse to IEC80127-2 sheet 1; ≤ 0,175 A; fast action rubber memory stop: 1 cable clip: 1 No LED function in case of polarity reversal in DC operation UL - Class 2 source required	10 V/m 2 kV 1 kV line to line, Ri: 2 Ohm 10 V class B C004	

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