



## 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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