




Final Test




Test description (100% test)

Photoelectric Proximity Switches

No.	Test type	Unit	Description
1	DistUmin	[mm]	Operating distance @Umin
2	HystUmin	[%]	Hysteresis @Umin
3	DistUnom	[mm]	Operating distance @Unom
4	HystUnom	[%]	Hysteresis @Unom
5	DistUmax	[mm]	Operating distance @Umax
6	HystUmax	[%]	Hysteresis @Umax
7	DistResUmin	[mm]	Excess light distance @Umin
8	DistResUnom	[mm]	Excess light distance @Unom
9	DistResUmax	[mm]	Excess light distance @Umax
10	DistResPotMin	[mm]	Excess light distance @Umin, pot min
11	DistResGray	[mm]	Excess light distance @Unom, pot min, gray target
12	DistUmin2	[mm]	Operating distance @Umin (output 2)
13	HystUmin2	[%]	Hysteresis @Umin (output 2)
14	DistUnom2	[mm]	Operating distance @Unom (output 2)
15	HystUnom2	[%]	Hysteresis @Unom (output 2)
16	DistUmax2	[mm]	Operating distance @Umax (output 2)
17	HystUmax2	[%]	Hysteresis @Umax (output 2)
18	DistPotMin	[mm]	Distance @ pot min @Unom
19	DistPotMin2	[mm]	Distance @ pot min @Unom (output 2)
20	HystPotMin	[%]	Hysteresis @pot min @Unom
21	HystPotMin2	[%]	Hysteresis @pot min @Unom (output 2)
22	DistPotSn	[mm]	Effective distance with pot set @Sn
23	DistPotSn2	[mm]	Effective distance with pot set @Sn (output 2)
24	DistGray	[mm]	Distance @pot max @Unom, gray target
25	DistGray2	[mm]	Distance @pot max @Unom (output 2), gray target
26	DiffSnGray	[mm]	Difference between DistPotSn et DistGray
27	DiffSnGray2	[mm]	Difference between DistPotSn2 et DistGray2 (output 2)
28	HystGray	[%]	Hysteresis @Unom, gray target
29	HystGray2	[%]	Hysteresis @Unom, gray target (output 2)
30	DistDeadZone	[mm]	Dead zone @Unom
31	DistDeadZone2	[mm]	Dead zone @Unom (output 2)
32	CommutUmaxIchmax	[Y/N]	Clean switching @Umax with max. load current
33	CommutUmaxIchmin	[Y/N]	Clean switching @Umax with min. load current
34	CommutCapUmaxIchmax	[Y/N]	Clean switching @Umax with max. load current and max. C
35	CommutUminIchmax	[Y/N]	Clean switching @Umin with max. load current
36	CommutUminIchmin	[Y/N]	Clean switching @Umin with min. load current
37	CommutCapUminIchmax	[Y/N]	Clean switching @Umin with max. load current and max.C
38	CommutUmaxIchmax2	[Y/N]	Clean switching @Umax with max. load current (output 2)
39	CommutUmaxIchmin2	[Y/N]	Clean switching @Umax with min. load current (output 2)
40	CommutCapUmaxIchmax2	[Y/N]	Clean switching @Umax with max. load current and max. C (output 2)
41	CommutUminIchmax2	[Y/N]	Clean switching @Umin with max. load current (output 2)
42	CommutUminIchmin2	[Y/N]	Clean switching @Umin with min. load current (output 2)
43	CommutCapUminIchmax2	[Y/N]	Clean switching @Umin with max. load current and max.C (output 2)

Date première édition	Edité par	Libéré par	Edition	Modifié le	Visa
11.12.95	29	29 	1	11.12.02	29 
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44	IconsOn	[mA]	Current drain, output ON
45	IconsOff	[mA]	Current drain, output OFF
46	IccEnclUmin	[mA]	Short circuit current threshold @Umin
47	IccFrancUmin	[mA]	Average short circuit current @Umin
48	IccFrancUminSat	[mA]	Average short circuit current @Umin with S=0
49	IccPeakUmin	[mA]	Short circuit current peaks @Umin
50	CCTPulseUmin	[ms]	Short circuit current pulse length @Umin
51	CCFreqUmin	[Hz]	Frequency of short circuit pulses @Umin
52	IccEnclUmax	[mA]	Short circuit current threshold @Umax
53	IccFrancUmax	[mA]	Average short circuit current @Umax
54	IccFrancUmaxSat	[mA]	Average short circuit current @Umax with S=0
55	IccPeakUmax	[mA]	Short circuit current peaks @Umax
56	CCTPulseUmax	[ms]	Short circuit current pulse length @Umax
57	CCFreqUmax	[Hz]	Frequency of short circuit pulses @Umax
58	IccEnclUmin2	[mA]	Short circuit current threshold @Umin (output 2)
59	IccFrancUmin2	[mA]	Average short circuit current @Umin (output 2)
60	IccFrancUminSat2	[mA]	Average short circuit current @Umin with S=0 (output 2)
61	IccPeakUmin2	[mA]	Short circuit current peaks @Umin (output 2)
62	CCTPulseUmin2	[ms]	Short circuit current pulse length @Umin (output 2)
63	CCFreqUmin2	[Hz]	Frequency of short circuit pulses @Umin (output 2)
64	IccEnclUmax2	[mA]	Short circuit current threshold @Umax (output 2)
65	IccFrancUmax2	[mA]	Average short circuit current @Umax (output 2)
66	IccFrancUmaxSat2	[mA]	Average short circuit current @Umax with S=0 (output 2)
67	IccPeakUmax2	[mA]	Short circuit current peaks @Umax (output 2)
68	CCTPulseUmax2	[ms]	Short circuit current pulse length @Umax (output 2)
69	CCFreqUmax2	[Hz]	Frequency of short circuit pulses @Umax (output 2)
70	UsatUmaxIchmax	[V]	Output saturation voltage @Umax with max. load current
71	UsatUmaxIchmax2	[V]	Output saturation voltage @Umax with max. load current (output 2)
72	UsatUminIchmax	[V]	Output saturation voltage @Umin with max. load current
73	UsatUminIchmax2	[V]	Output saturation voltage @Umin with max. load current (output 2)
74	IfuiteUmax	[mA]	Output leakage current @Umax
75	IfuiteUmin	[mA]	Output leakage current @Umin
76	UbDeclenchement	[V]	Supply voltage disable threshold voltage
77	UbEnclenchement	[V]	Supply voltage enable threshold voltage
78	RetDispUmin	[ms]	On-delay
79	RetDispUmin2	[ms]	On-delay (output 2)
80	SignErrOnUmin	[ms]	Power-up error signal @Umax
81	SignErrOnUmin2	[ms]	Power-up error signal @Umax (output 2)
82	SignErrOffUmin	[ms]	Power-up error signal @Umin
83	SignErrOffUmin2	[ms]	Power-up error signal @Umin (output 2)
84	linvBIBr	[mA]	Voltage reversal current / blue - brown wires
85	linvBINr	[mA]	Voltage reversal current / blue - black wires
86	linvBIWh	[mA]	Voltage reversal current / blue - white wires
87	linvWhBr	[mA]	Voltage reversal current / white - brown wires
88	linvWhNr	[mA]	Voltage reversal current / white - black wires
89	linvNrBr	[mA]	Voltage reversal current / black - brown wires
90	UzOverOut	[V]	Output protection zener threshold voltage
91	UzOverOut2	[V]	Output protection zener threshold voltage (output 2)
92	UzOverUb	[V]	Supply lines protection zener threshold voltage
93	UzInvUb	[V]	Voltage reversal output protection zener threshold voltage
94	YellowLed	[Y/N]	Yellow output LED operation
95	GreenLed	[Y/N]	Green output LED operation
96	TestIsolation	[Y/N]	Isolation test 500 / 1'500 VAC

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