

SIMATIC PXI inductive proximity switches

SIMATIC PXI200

Overview

SIMATIC sensors PXI200


Sensors for standard applications. Typical values:

- Operating voltage up to 34 V DC
- Degree of protection up to IP67
- Operating distance acc. to standard

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Selection table

SIMATIC PXI200



Design, Ø	3 mm	4 mm	M5	5 mm x 5 mm	M8	6.5 mm	8 mm x 8 mm	M12	12 mm x 40 mm	12 mm x 32 mm
Operating distance										
• 0 ... 0.8 mm (PXI.1.)	0.6 mm	0.8 mm	0.8 mm	0.8 mm						
• 1 ... 4 mm (PXI.2.)					1 mm 1.5 mm 2.5 mm	1.5 mm 2.5 mm	1.5 mm	2 mm 4 mm	2 mm 4 mm	2 mm
Output										
• NO contact/NC contact	■ / —	■ / ■	■ / ■	■ / —	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
• pnp/npn	■ / —	■ / —	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / —	■ / —
Number of wires	3	3	3	3	2, 3, 4	3	3	2, 3, 4	3, 4	4
Operating voltage										
• 10/15 ... 30/35 V DC	■	■	■	■	■	■	■	■	■	■
Connection										
• M8 connector		■	■		■	■	■		■	
• M12 connector					■			■	■	
• Cable	■	■	■	■	■	■	■	■	■	■
Degree of protection										
• IP65 / IP67	— / ■	— / ■	— / ■	— / ■	— / ■	— / ■	— / ■	— / ■	— / ■	— / ■
See page	2/140	2/141	2/141	2/141	from 2/142	from 2/144	2/146	from 2/148	2/150	2/150

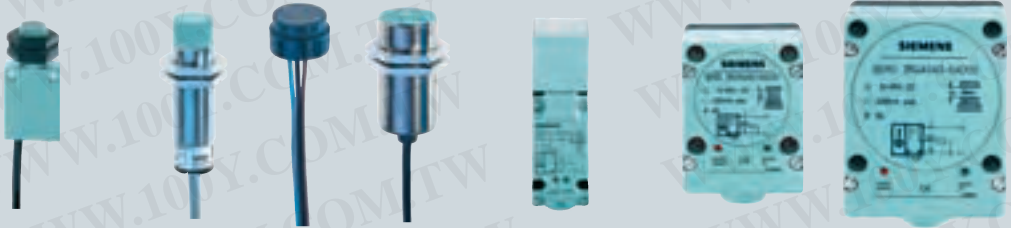
A configurator for fast product selection and ordering in the Internet can be found at www.siemens.com/simatic-sensors/px

SIMATIC PXI inductive proximity switches

SIMATIC PXI200

2

SIMATIC PXI200



Design, Ø	Box with M14	M18	Button 18 mm	M30	40 mm x 40 mm	60 mm x 80 mm	80 mm x 100 mm
Operating distance							
• 1 ... 4 mm (PXI.2.)	2.5 mm						
• 5 ... 10 mm (PXI.3.)	5 mm	5 mm 8 mm	5 mm	10 mm			
• 12 ... 22 mm (PXI.4.)				15 mm 20 mm			
• 25 ... 40 mm (PXI.5.)						30 mm	40 mm
Output							
• NO contact/NC contact	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
• pnp/npn	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / —	■ / —
Number of wires	2, 3, 4	2, 3, 4	3	2, 3, 4	2, 3, 4	4	4
Operating voltage							
• 10/15 ... 30/35 V DC	■	■	■	■	■	■	■
Connection							
• M12 connector	■	■		■	■		
• Cable	■	■	■	■			
• Terminal compartment					■	■	■
Degree of protection							
• IP65 / IP67	— / ■	— / ■	— / ■	— / ■	■ / ■	■ / —	■ / —
See page	2/153	from 2/157	2/158	from 2/162	from 2/165	2/169	2/169

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Operating distance 2 mm

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Technical specifications

Class	Standard duty			
	3-wire	4-wire	3-wire	4-wire
Number of wires	3-wire	4-wire	3-wire	4-wire
Design	M12, Shorty	M12, Shorty	M12	M12
Installation in metal	Flush	Flush	Flush	Flush
Rated operating distance s_n	2 mm	2 mm	2 mm	2 mm
Enclosure material	Brass, nickel-plated	Brass, nickel-plated	Brass, nickel-plated	Brass, nickel-plated
Operating voltage (DC)	V 15 ... 34	15 ... 34	15 ... 34	15 ... 34
No-load supply current I_0	mA ≤ 17 (24 V); ≤ 30 (34 V)	≤ 1.0	≤ 17 (24 V); ≤ 30 (34 V)	≤ 25 (24 V); ≤ 40 (34 V)
Rated operational current I_e	mA 200 (≤ 50 °C); 150 (≤ 85 °C)	50	200 (≤ 50 °C); 150 (≤ 85 °C)	200 (≤ 50 °C); 150 (≤ 85 °C)
Switching frequency f	Hz 1200	800	1200	1200
Repeat accuracy R	mm 0.1	0.1	0.1	0.1
Power-up delay t_v	ms 40	3	40	40
Switching status display	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Precautions				
• Spurious signal suppression	•	•	•	•
• Short-circuit-proof/overload-proof	•	•	•	•
• Reverse-polarity protection	•	•	•	•
• Wire-break protection	•	•	•	•
• Inductive interference protection	•	•	•	•
• Radio interference protection	•	•	•	•
Degree of protection	IP67	IP67	IP67	IP67
Type	3RG40 12-.A.33 3RG40 12-.G.33	3RG40 12-0CD10 3RG40 12-3CD11	3RG40 12-.A.01 3RG40 12-.G.00	3RG40 12-0CD00 3RG40 12-3CD00

Selection and Ordering data

Switching output	Circuit diagram number ¹⁾	Connector type ²⁾	Order No.	Order No.
With 2 m cable, PUR				
NO contact, pnp	11	▶	3RG40 12-0AG33	▶ B 3RG40 12-0AG01
NC contact, pnp	12	B	3RG40 12-0AF33	B 3RG40 12-0AF01
NO contact, npn	13	▶ B	3RG40 12-0GB33	▶ B 3RG40 12-0GB00
NC contact, npn	14	B	3RG40 12-0GA33	B 3RG40 12-0GA00
			4 × 0.25 mm ²	4 × 0.25 mm ²
NO contact and NC contact, pnp	10	▶	3RG40 12-0CD10	▶ B 3RG40 12-0CD00
With M12 connector				
NO contact, pnp	2	E, F	▶ 3RG40 12-3AG33	▶ B 3RG40 12-3AG01
NC contact, pnp	3	F	B 3RG40 12-3AF33	▶ B 3RG40 12-3AF01
NO contact, npn	4	E, F	B 3RG40 12-3GB33	▶ B 3RG40 12-3GB00
NC contact, npn	5	F	3RG40 12-3GA33	-
			4-wire	4-wire
NO contact and NC contact, pnp	1	F	3RG40 12-3CD11	▶ B 3RG40 12-3CD00

1) See page 2/242.

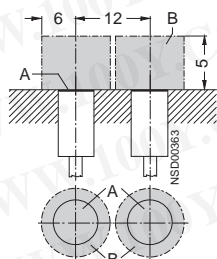
2) See from page 2/268.

▶ Preferred type, available from stock.

B: Subject to export regulations AL = N and ECCN = EAR99

Dimensions

Mounting instructions



A = active surface
 B = metal-free area

