

► Coded safety switch PSENcode for position monitoring

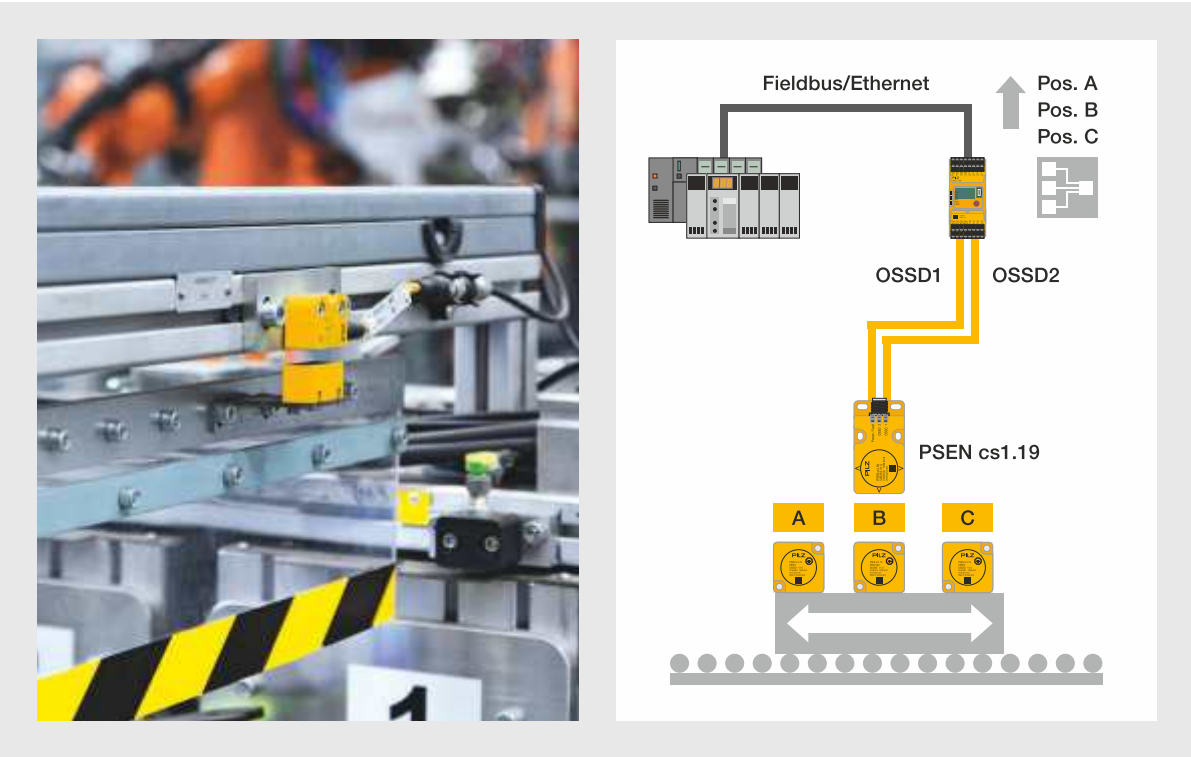
Three positions – one safe sensor: one coded safety switch type is suitable for monitoring up to three positions safely. In this economical solution, PSENcode also distinguishes safely between positions.



The coded safety switch PSEN csx.19n enables quick, user-friendly diagnostics via LED display, whether you use the compact or the large design. Thanks to the connection type (M12 connector, 5-pin), the new PSENcode fits perfectly into any system environment.

Solution for standard and safety

Previously, two standard proximity switches and one safe sensor were necessary to monitor three positions within an application. The coded safety switch PSEN csx.19n enables a more efficient solution because it can replace two standard sensors. The coded safety switch PSENcode simplifies the application considerably. Actuator arms, sensor wiring and I/O channels are surplus to requirements, as are proximity switches. As a result you can reduce the costs and effort involved in standard and safety-related position detection.



Selection guide – coded safety switch PSENcode – Sets

- Common features**
- Mode of operation: RFID transponder technology
 - Type of coding: coded
 - Diagnostic interface: 3 LEDs (active actuator, supply voltage/fault)
 - Connection: connector, M12, 5-pin
 - Design: compact or large
 - Outputs: 2 safety outputs
 - Inputs: 2 safety inputs
 - Protection type: IP67
 - Typical operating distance:
 - PSEN cs1.19n/PSEN cs1.19: 15 mm
 - PSEN cs3.19n/PSEN cs3.19: 11 mm

Type (switch/ actuator)	Certi- fication	Order number (Unit)		
		Sensor with 3 actuators (OSSD 1, OSSD 2, OSSD 1&2)	Sensor with 2 actuators (OSSD 1, OSSD 2)	Sensor with 1 actuator (OSSD 1&2)
► Large design				
PSEN cs1.19n/ PSEN cs1.19	EAC, FCC ¹⁾ , IC ¹⁾ , TÜV, UL ¹⁾	540 303	540 305	540 304
► Compact design				
PSEN cs3.19n/ PSEN cs3.19	EAC, FCC ¹⁾ , IC ¹⁾ , TÜV, UL ¹⁾	541 303	541 305	541 304

¹⁾ FCC, IC and UL certification applies only to individual components contained within the set

Selection guide – coded safety switch PSENcode



PSEN cs3.19n – 1 switch

Type	Certification	Order number
PSEN cs1.19n – 1 switch	EAC, FCC ¹⁾ , IC ¹⁾ , TÜV, UL ¹⁾	540 353
PSEN cs1.19 – OSSD 1&2 – 1 actuator	EAC, TÜV, UL ¹⁾	540 380
PSEN cs1.19 – OSSD 1 – 1 actuator	EAC, TÜV, UL ¹⁾	540 382
PSEN cs1.19 – OSSD 2 – 1 actuator	EAC, TÜV, UL ¹⁾	540 383
PSEN cs3.19n – 1 switch	EAC, FCC ¹⁾ , IC ¹⁾ , TÜV, UL ¹⁾	541 353
PSEN cs3.19 – OSSD 1&2 – 1 actuator	EAC, TÜV, UL ¹⁾	541 380
PSEN cs3.19 – OSSD 1 – 1 actuator	EAC, TÜV, UL ¹⁾	541 382
PSEN cs3.19 – OSSD 2 – 1 actuator	EAC, TÜV, UL ¹⁾	541 383

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Achievable safety level in accordance with EN ISO 13849-1 (per actuator)

Actuator used	OSSD 1&2	OSSD 1	OSSD 2
OSSD 1&2	PL e	-	-
OSSD 1, OSSD 2	-	PL d ²⁾	PL d ²⁾
OSSD 1&2, OSSD 1, OSSD 2	PL d ²⁾	PL c	PL c

²⁾ With additional diagnostics, stuck-at-faults and wiring errors such as short circuits and shorts across contacts are detected (plausibility check).

