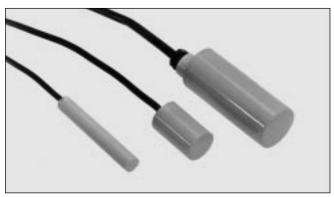
Proximity Sensors Capacitive Thermoplastic Polyester Housing Type DR E, Ø 11, Ø 22, Ø 30



CARLO GAVAZZI

- Thermoplastic polyester housing, cylindrical
- Diameter: Ø 11, Ø 22, Ø 30
- Sensing distance: 3 to 10 mm
- Power supply: 10 to 27 VDC 90 to 240 VAC
- LED-indication for output ON (AC types)
- 2 m cable

Product Description

Capacitive proximity switch in cylindrical polyester housing, Ø 11-30. Transistor NPN and thyristor outputs. Delivered with 2 m cable.

Ordering Key	DR 3 E
Type: Capacitive proximity switch Output type	

Type Selection

Housing diameter	Rated operating dist. (S _n) ³⁾	Ordering no. Transistor NPN Make switching	Ordering no. SCR Make switching	Ordering no. SCR Break switching
Ø 11 mm Ø 22 mm	3 mm ¹⁾ 5 mm ²⁾	DR 3 E DR 6 E		
Ø 30 mm	10 mm ¹⁾		DR 10 T	DR 10 TI
¹⁾ For non-flue	sh mounting	²⁾ For flush mounting	³⁾ Object: Grounded steel plate	

Specifications

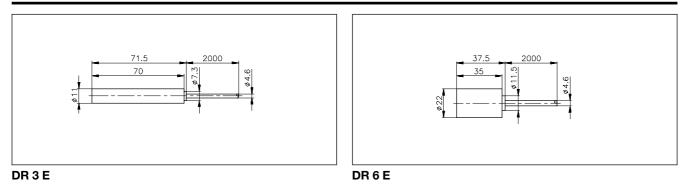
	Transistor NPN	SCR
Rated operational volt. (U _e) (U_B)	12 to 24 VDC 10 to 27 VDC (ripple included)	100 to 220 VAC, 50 to 60 Hz 90 to 240 VAC, 50 to 60 Hz
Ripple	≤ 10%	
Rated operational current (l _e) Continuous Short-time	≤ 200 mA ≤ 200 mA	≤ 150 mA ≤ 1 A, max. 20 ms, 1 Hz
No-load supply current (l _o)	DR 3 E: ≤ 5 mA DR 6 E: ≤ 9 mA	
Minimum load current		20 mA
OFF-state current (I _r)		Typ. 7 mA, max. 10 mA
Voltage drop (U _d)	\leq 2 V at max. load (DR 6 E: \leq 0.25 V)	\leq 11 VAC at max. load
Protection	None	None
Frequency of operating cycles (f)	100 Hz	5 Hz
Indication for output ON	None	LED, yellow
Rated operating dist. (S _n)	DR 3 E3 mmDR 6 E5 mmReference object: Grounded steel plate.Other objects: Refer to "Reduction Factors",Technical information.	10 mm Reference object: Grounded steel plate. Other objects: Refer to "Reduction Factors", Technical information.
Hysteresis (H) (Differential travel)	1 to 30% of sensing distance	1 to 40% of sensing distance

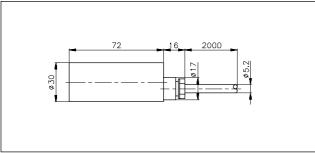
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Specifications (cont.)

	Transistor NPN	SCR	
Ambient temperature Operating Storage	-20° to +60°C (-4° to +140°F) -20° to +60°C (-4° to +140°F)	-20° to +70°C (-4° to +158°F) -20° to +70°C (-4° to +158°F)	
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)	IP 67 (Nema 1, 3, 4, 6, 13)	
Housing material Body Back	Yellow thermoplastic polyester Yellow thermoplastic polyester	Yellow thermoplastic polyester Yellow thermoplastic polyester	
Cable	2 m, 3 x 0.4 mm ² black PVC	2 m, 2 x 0.75 mm ² black PVC	
Weight DR 3 E 50 g DR 6 E 50 g		110 g	

Dimensions





DR 10 ..

Wiring Diagrams

Installation Hint

Power Supplies

Refer to "Wiring Diagrams", Technical information.

Refer to "Installation Hints", Technical information.

Power supplies VDC: > SS 130/140. Power supplies with amplifier relays: > SV 190.

Accessories

Refer to "Accessories", Technical information.