

SN02X12-732L-MC2182 (Order no. 100116)

Technical data

Approvals



Workspace

Rated operating distances S_n	5 mm
Assured operating distances S_a	0 ... 4 mm (Dimension applies only to steel (ST37) and to EUCHNER trip dogs of series UX../GX..)
Switching hysteresis	0.2 ... 1.0 mm (in the installed state)
Repeat accuracy R	5 %

Switching element, station 1, station 2

Center offset

at s = 1 mm read distance	$m_{ON} = (-) 4.2 \text{ mm}$ and $m_{OFF} = (-) 4.0$ (for side approach)
at s = 2 mm read distance	$m_{ON} = (-) 3.3 \text{ mm}$ and $m_{OFF} = (-) 3.0$ (for side approach)
at s = 3 mm read distance	$m_{ON} = (-) 2.5 \text{ mm}$ and $m_{OFF} = (-) 2.0$ (for side approach)
at s = 4 mm read distance	$m_{ON} = (-) 0.5 \text{ mm}$ and $m_{OFF} = 0.0$ (for side approach)

Operating and display elements

LED display

LED yellow LED forward current $I_{Fmax.}$ 2.5 mA

Electrical connection values

Output type	PNP
Rated operating current I_e	250 mA
Operating voltage	DC

	20 ... 24 ... 33 V Power supply unit with electrical isolation as per EN 61558-2-6 or sensor pulsing U_B (HIGH)
Operating current	max. 11 mA Current consumption without load
EMC protection requirements	EN 60947-5-2
Utilization category	DC-12 250mA, 33V (For DC-13, the output must be protected with a free-wheeling diode for inductive loads.)
Short circuit and overload protection, pulsed	Yes
LOW level	on sensor pulsing 0 ... 5 V DC
Off-state current I_r	max. 0.001 mA
Residual ripple	From U_B or U_B (HIGH) max. 10 %
Electrical switching frequency	max. 500 Hz
Safety class	I
Voltage drop U_d	DC max. 2.5 V
Duty cycle T_{on}	T (HIGH) : T (LOW) on sensor pulsing 4 : 1
Test pulse duration	T (LOW) on sensor pulsing 0.1 ... 20 ms
Reverse polarity protection	Yes

Mechanical values and environment

Connection type	1 x plug connector, 7-pin. (M17 receptacle 7-pin, vibration-resistant up to 25 G. INTERCONTEC order no. receptacle + insert: B EG A 863 NN 00 00 158A 000, contact pins: 61.004.11, wiring 0.14 mm ² BK, 0.75 mm ² GN/YE)
Number NC contacts	1 per switching element
Number of switching elements	2
Design	upright
Proximity switch spacing	12 mm