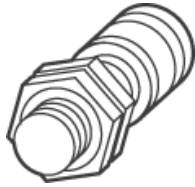


Type: **LSI-R12M-NF4-PD**

Article No.: **281906**

Sales text **Ind.sensor,DC,round 12,metal,M12**

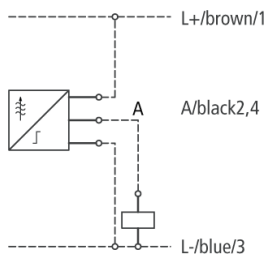


Ordering information			
Contacts	N/O = normally open contact, C/O = changeover contact, P = programmable as N/C or N/O		S
Rated switching distance	S_n	mm	4
Rated operating voltage	U_e	V DC	10 – 30
Style		mm	M12 × 1
Housing			Metal
Terminal connection			Plug-in connection M12 x 1
Fitting in metal			Non-flush

Notes concerning the product group

Connection diagram according to IEC/EN 60947-5-2:

Three-wire DC proximity switches:



Accessories

Page

M12 screw connectors (for metal enclosures with plug connector)

General			
Standards			IEC/EN 60947-5-2

Ambient temperature		°C	... 25...+70
Protection type			IP 67
Characteristics			
Rated switching distance	S_n	mm	2
Repetition accuracy of S_n		%	2
Temperature drift of S_n		%	< 10
Switching hysteresis of S_n		%	15
Rated operating voltage	U_e	V DC	10 – 30
Residual ripple of U_e		%	10
Operating current in the switched state at 24 V DC	I_b	mA	15
Max. operating frequency (resistive load)	I_e	mA	< 200
Voltage drop with I_e	U_d	V	1,8
Readiness delay	t_v	ms	50
Operating frequency at resistive load	f	Hz	2000
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I_r	mA	0,1
Switching state display		LED	Yellow
Notes			

Notes

UL-File: E244290

Rated switching distance S_n [mm] with LSI

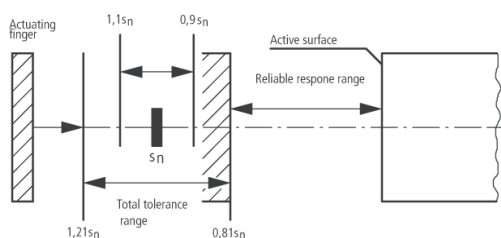
According to the standard, the rated switching distance S_n relates to a measurement control point made of St 37 which is 1 mm thick with the dimensions B 3 H.

LSI...R: B x H = device diameter

LSI...Q: B x H = edge length

- Deviation in the type, size and shape of the approaching metal object
- Ambient temperature
- Different alloys

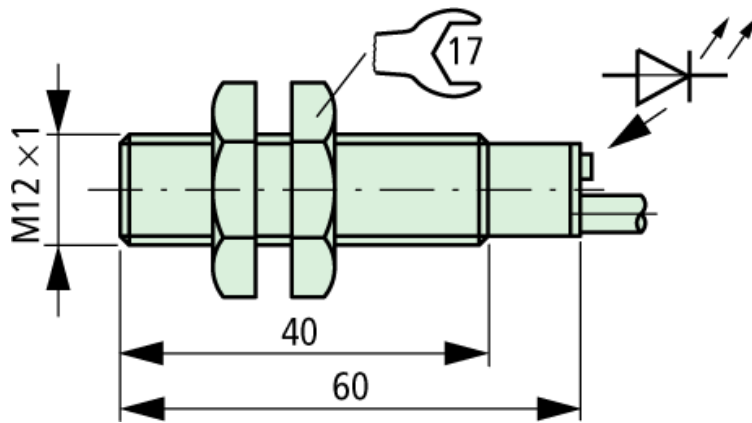
Ideal band



Correction factor with LSI:

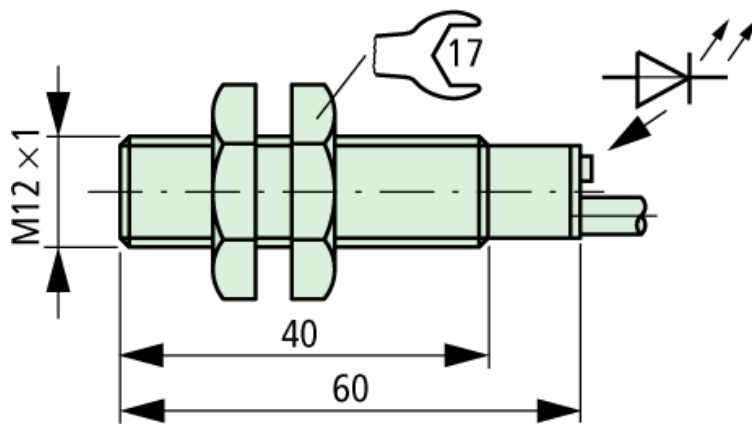
Steel St 37	1.0	$\times S_n$
Nickel chrome	Approx. 0.9	$\times S_n$
Brass	Approx. 0.5	$\times S_n$
Aluminium	Approx. 0.45	$\times S_n$
Copper	Approx. 0.4	$\times S_n$
Galvanized sheet steel	Approx. 0.85	$\times S_n$
Stainless-steel depending on the alloy	1.0 – 0.1	$\times S_n$

Dimensions



DC voltage version (PNP)
Metal housing

Dimensions



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