

Proximity switch, inductive,  $S_n=8\text{mm}$ , 3L, 10-30VDC, NPN, M18, metal, M12

**Part no.** LSI-R18M-NF8-PD  
**Article no.** 281952  
**Catalog No.** -

## Delivery program

Voltage type			DC voltage
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	8
<b>Rated operating voltage</b>	$U_e$	V DC	10 - 30
Maximum load current	$I_e$	mA	200
Style		mm	M18 x 1
Housing			Metal
Terminal connection			Plug-in connection M12 x 1
Fitting in metal			Non-flush

### Notes

All LSI-...D feature an LED function display and protective functions against:

- Short-circuit
- Overload
- Reverse polarity
- Wire breakage

Connection diagram as per IEC/EN 60947-5-2,

3-wire DC configuration:

Leerwert  
Standard-  
sprache  
(Datei inaktiv)

## Technical data

### General

Standards			IEC/EN 60947-5-2
Ambient temperature			25 - 70
Degree of Protection			IP67

### Characteristics

Rated switching distance	$S_n$	mm	8
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 $U_e$		%	$\leq 10$
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 at $I_e$	$U_d$	V	1.8
Readiness delay	$t_v$	ms	50
Operating frequency at resistive load	f	Hz	1000
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

UL file: E244290

Rated switching distance  $S_n$  [mm] for LSI

In accordance with the applicable standards, rated switching distance  $S_n$  is relative to a standard calibrating plate made of St 37 with a thickness of 1 mm and dimensions of W x H.

LSI...R: E x H = Device diameter

LSI...Q: E x H = Edge length

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

Ideal band

Leerwert  
Standard-  
sprache  
(Datei inaktiv)

### Correction factor with LSI:

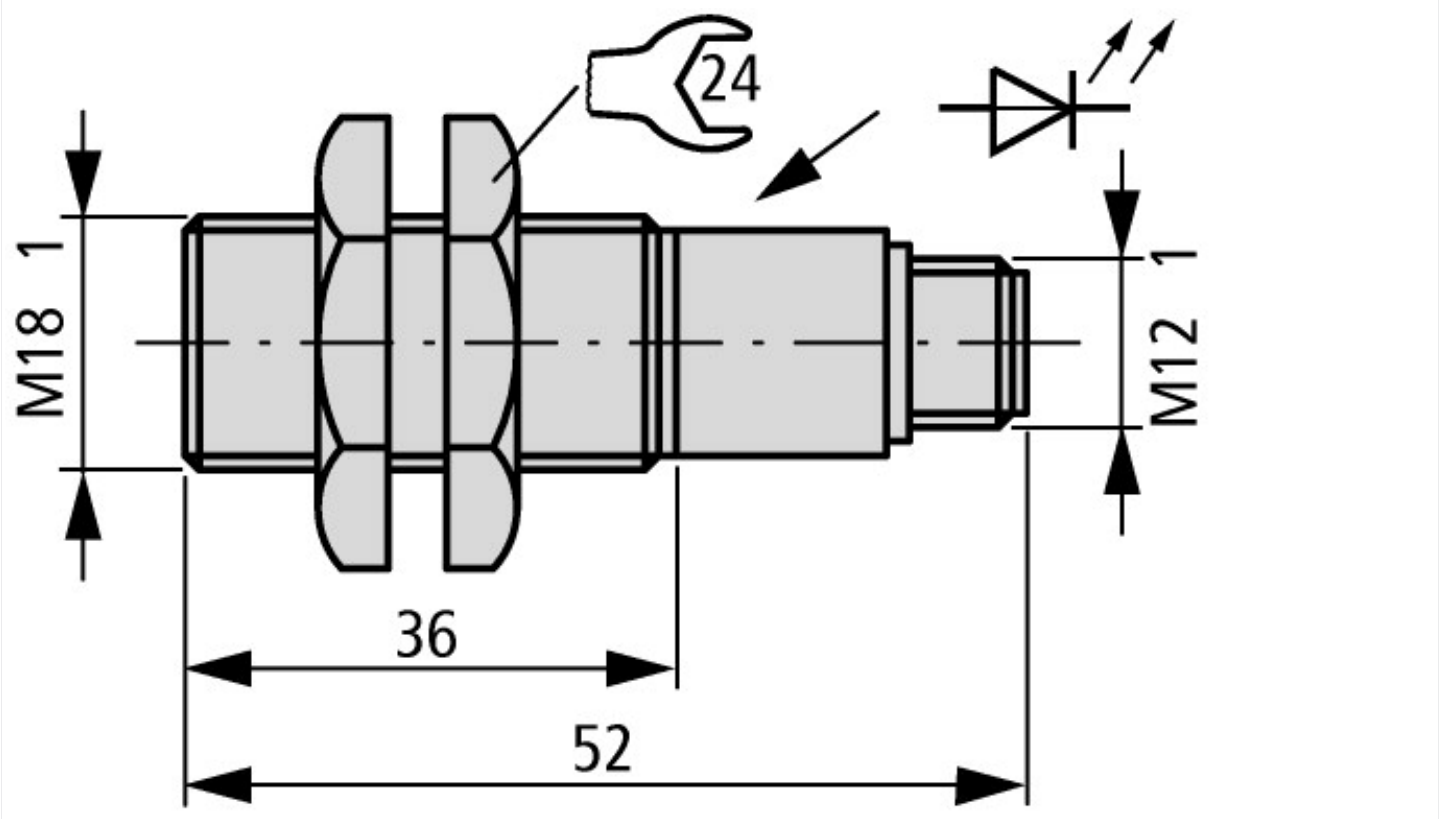
Steel St 37		1.0	$\times S_n$
Nickel chrome	Approx.	0.9	$\times S_n$
Brass	Approx.	0.5	$\times S_n$
Aluminium	Approx.	0.45	$\times S_n$
Copper	Approx.	0.4	$\times S_n$
Galvanized sheet steel	Approx.	0.85	$\times S_n$
Stainless-steel depending on the alloy		1.0 - 0.1	$\times S_n$

## Design verification as per IEC/EN 61439

Technical data for design verification

Operating ambient temperature min.	°C	25
Operating ambient temperature max.	°C	70

## Dimensions



## Additional product information (links)

AWA1360-2156 Inductive Proximity Switches

