Proximity switch, inductive, Sn=10mm, 3L, 10-30VDC, NPN, M30, metal, line 2m

EAT•N
Powering Business Worldwide™

Part no.	**LSI-R30M-F10-LD**
Article no.	**281956**
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	10
Rated operating voltage	U_e	V DC	10 - 30
Maximum load current	I_e	mA	200
Style		mm	M30 x 1.5
Housing			Metal
Terminal connection			2 m connection cable
Fitting in metal			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	10
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 at I_e	U_d	V	1.8
Readiness delay	t_v	ms	50
Operating frequency at resistive load	f	Hz	500
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	x S_n
Nickel chrome	Approx.	0.9	x S_n
Brass	Approx.	0.5	x S_n
Aluminium	Approx.	0.45	x S_n
Copper	Approx.	0.4	x S_n
Galvanized sheet steel	Approx.	0.85	x S_n
Stainless-steel depending on the alloy		1.0 - 0.1	x 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
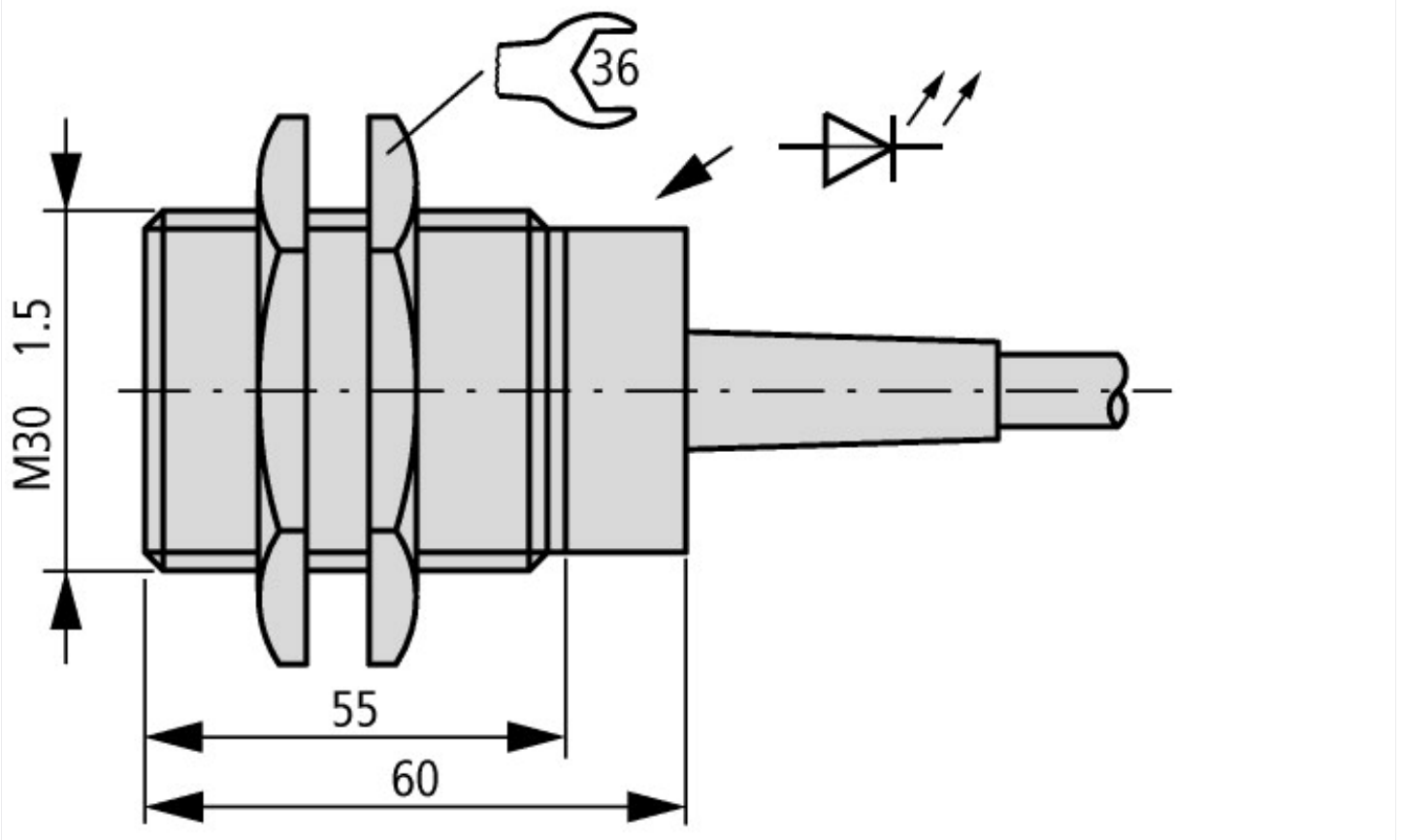
Additional product information (links)

AWA1360-2156 Inductive Proximity Switches

AWA1360-2156 Inductive Proximity Switches	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/21560404.pdf