

IIK3020-BPKG/M/AM/V4A/US104DPS

Technical drawing of the LED module (LED 4 x 90°) showing dimensions and mounting details. The drawing includes the following dimensions and features:

- Overall length: 70
- Distance from mounting flange to center of LED array: 59
- Distance from mounting flange to end of main body: 57
- Distance from mounting flange to center of LED array: 33
- Distance from center of LED array to end of main body: 20
- Mounting flange: M12 x 1
- Main body diameter: M30 x 1,5
- LED array: 4 x 90°
- LED array width: 5
- LED array pitch: 36



Electrical design	PNP
Output function	normally open
Sensing range [mm]	20
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 70

System	gold-plated contacts; Full-metal housing; correction factor = 1
Application	Washdown applications

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	250
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Sensing range	[mm]	20
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Inductive full-metal sensor

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Real sensing range S_r	[mm]	$20 \pm 10 \%$
Operating distance	[mm]	0...16.2

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1	
Hysteresis	[% of S_r]	1...15
Switch-point drift	[% of S_r]	-10...10
Correction factor = 1		yes

Operating conditions

Ambient temperature	[°C]	0...100
Protection		IP 68; IP 69K

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, R_i : 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B

Mechanical data

Housing	Threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 70
Thread designation	M30 x 1.5	
Material	housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); lock nuts: stainless steel (1.4404 / 316L)	
Full-metal housing	yes	

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated





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Connection

