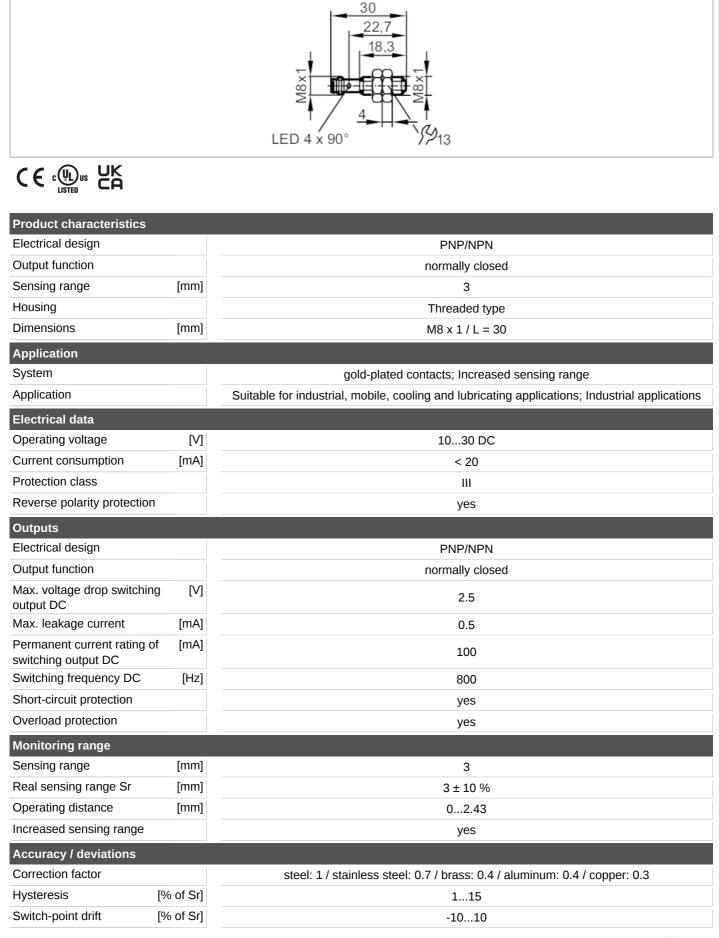
# **IES225**

### Inductive sensor

IEB2003BBRKG/V4A/AS





ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — EN-US — IES225-00 — 13.04.2023 — 🗵

# **IES225**

### Inductive sensor

IEB2003BBRKG/V4A/AS



Operating conditions			
Ambient temperature [°C]		-4085	
Protection		IP 65; IP 66; IP 67; IP 68; IP 69K; (with ifm socket duly screwed on)	
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 61000-4-6 HF conducted	10 V
		EN 55011	class B
Vibration resistance		EN 60068-2-6 Fc	20 g (103000 Hz) / 50 sweep cycles per frequency; 1 octave per minute in 3 axes
Shock resistance		EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance		EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature chang	ges	EN 60068-2-14 Na	TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test		EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[years]	1708	
Embedded software included		yes	
UL approval		Та	-2580 °C
		Enclosure type	Туре 1
		voltage supply	Limited Voltage/Current
		UL approval number	A017
		File number UL	E174191
Mechanical data			
Weight	[g]	3.1	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M8 x 1 / L = 30	
Thread designation		M8 x 1	
Material		stainless steel (1.4404 / 316L); sensing face: LCP white; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)	
Tightening torque	[Nm]	A = 5 mm: 2 Nm; B: 5 Nm	
Displays / operating e	lements		
Display		Switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity			1 ncs
r aun yuanniy		1 pcs.	

# **IES225**

#### Inductive sensor

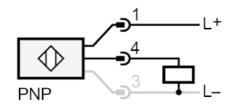
IEB2003BBRKG/V4A/AS

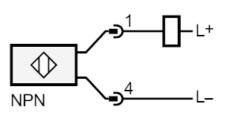


**Electrical connection** 



Connection





Electrical connection - plug

Connector: 1 x M8; Contacts: gold-plated

### Diagrams and graphs

Installation

