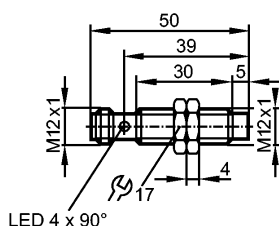


**IFS205**

IFB3007-BPKG/US-104

Inductive sensors



**Product characteristics**

Inductive sensor
Metal thread M12 x 1
Quick disconnect
Increased sensing range
gold-plated contacts
Sensing range 7 mm; [nf] non-flush mountable

**Electrical data**

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
Protection class	II
Reverse polarity protection	yes

**Outputs**

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	700

**Monitoring range**

Sensing range [mm]	7
Real sensing range (Sr) [mm]	7 ± 10 %
Operating distance [mm]	0...5.7

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10

**Environment**

Ambient temperature [°C]	-25...70
Protection	IP 67

**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
MTTF [Years]	1528

**IFS205**

IFB3007-BPKG/US-104

**Inductive sensors**

UL approval number	A003
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**Mechanical data**

Mounting	non-flush mountable
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Housing materials	brass white bronze coated; active face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated
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Weight [kg]	0.027
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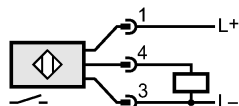
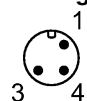
**Displays / operating elements**

Output status indication	LED	4 x yellow
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**Electrical connection**

Connection	M12 connector; gold-plated contacts
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**Wiring**



**Accessories**

Accessories (included)	2 lock nuts
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**Remarks**

Pack quantity [piece]	1
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