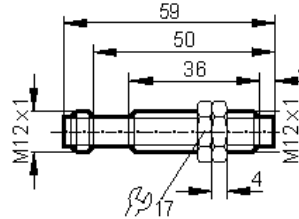


Inductive proximity switches

IF5492

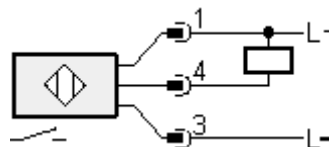
IFK3004-ANOG/US
Metal thread M12 x 1
Plug and socket

Sensing range 4mm [nf]
non-flush mountable



CE

Electrical design	DC NPN
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	200
Short-circuit protection	no
Reverse polarity protection	no
Overload protection	no
Voltage drop [V]	< 1
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	300
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...80
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	brass Optalloy-plated active face: PC (polycarbonate)
Connection	M12 connector
Wiring	



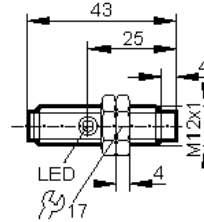
Accessories (included)

2 lock nuts

IF5544

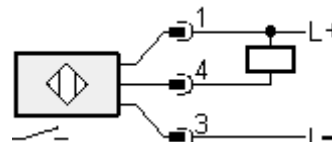
IFB3004-ANKG/US
Metal thread M12 x 1
Plug and socket

Sensing range 4mm [nf]
non-flush mountable



Electrical design	DC NPN
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	1400
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...80
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	brass Optalloy-plated PC (polycarbonate)
Function display Switching status LED	yellow
Connection	M12 connector

Wiring



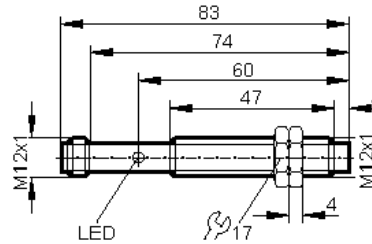
Accessories (included)


2 lock nuts

IF5622

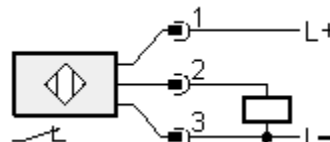
IFA3004-APKG/US
Metal thread M12 x 1
Plug and socket

Sensing range 4mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally closed
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	400
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...80
Protection	IP 67 
EMC	EN 60947-5-2; EN 55011 class B
Housing material	brass Optalloy-plated PC (polycarbonate)
Function display Switching status LED	yellow
Connection	M12 connector

Wiring



Accessories (included)

2 lock nuts

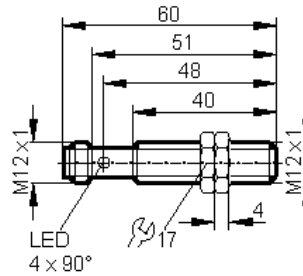
Inductive proximity switches

IF5670

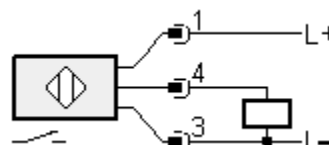
IFK3002UBPKG/US
Metal thread M12 x 1
Plug and socket

Electromagnetic-field immune

Sensing range 2mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	2 ± 10 %
Operating distance [mm]	0...1.6
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	1000
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	brass Optalloy-plated active face: PTFE
Function display Switching status LED	yellow
Connection	M12 connector
Wiring	
Accessories (included)	2 lock nuts

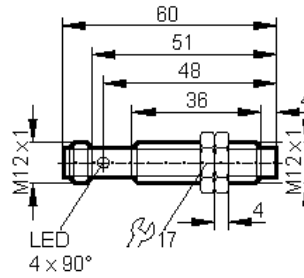


IF5675

IFK3004UBPKG/US
Metal thread M12 x 1
Plug and socket

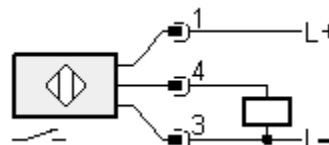
Electromagnetic-field immune

Sensing range 4mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	1000
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	brass Optalloy-plated active face: PTFE
Function display Switching status LED	yellow
Connection	M12 connector

Wiring



Accessories (included)

2 lock nuts

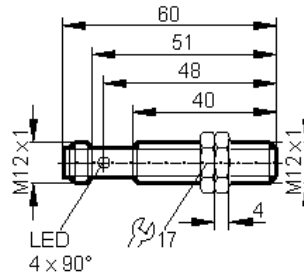
Inductive proximity switches

IF5750

IFK3002UBPKG/SC/US
Metal thread M12 x 1
Plug and socket

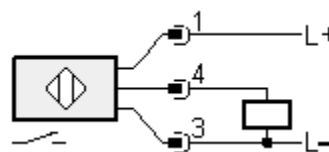
Electromagnetic-field immune

Sensing range 2mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	2 ± 10 %
Operating distance [mm]	0...1.6
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	1000
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	housing: brass PTFE-coated active face: PTFE
Function display	
Switching status LED	yellow
Connection	M12 connector

Wiring



Accessories (included)

2 lock nuts

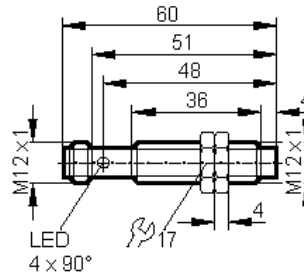
Inductive proximity switches

IF5751

IFK3004UBPKG/SC/US
Metal thread M12 x 1
Plug and socket

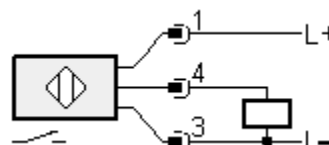
Electromagnetic-field immune

Sensing range 4mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	1000
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	brass PTFE-coated active face: PTFE
Function display Switching status LED	yellow
Connection	M12 connector

Wiring



Accessories (included)

2 lock nuts

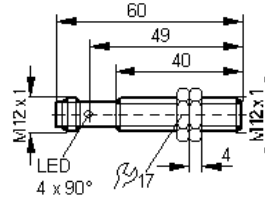
Inductive proximity switches

IF5775

IFK3004BBPKG/M/US-100-DPS
Metal thread M12 x 1
Plug and socket

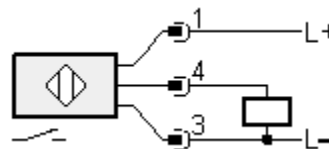
Increased sensing range
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	200
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	1...20
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.5 / Cu approx. 0.4
Operating temperature [°C]	-25...70
Protection	IP 68 *) ☐
EMC	EN 60947-5-2; EN 55011 class B
Housing material	housing: brass white bronze coated active face: LCP uncoloured
Function display	
Switching status LED	yellow
Connection	M12 connector, gold-plated contacts

Wiring



Remarks

*) "Coolant"

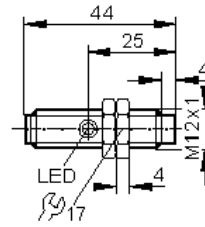
Accessories (included)

2 lock nuts

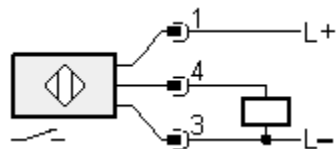
IF5796

IFB3004-BPKG/V4A/US
Metal thread M12 x 1
Plug and socket

Sensing range 4mm [nf]
non-flush mountable



CE

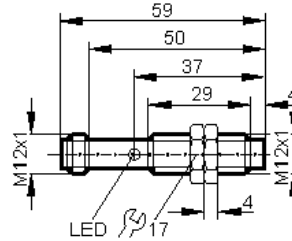
Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	150 (...50 °C) / 125 (...80 °C)
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	1400
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / Cu approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Operating temperature [°C]	-25...80
Protection	IP 67
EMC	EN 60947-5-2; EN 55011 class B
Housing material	stainless steel (320S31) active face: PBT
Function display Switching status LED	yellow
Connection	M12 connector, gold-plated contacts
Wiring	
	
Accessories (included)	2 lock nuts




IF5813

IFK3004-BPKG/V4A/US
Metal thread M12 x 1
Plug and socket

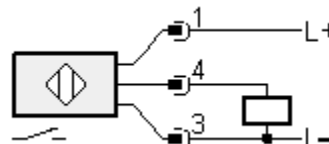
Sensing range 4mm [nf]
non-flush mountable



CE

Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 15 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	1400
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...80
Protection	IP 67 
EMC	EN 60947-5-2; EN 55011 class B
Housing material	stainless steel (320S31) active face: CO-PC
Function display Switching status LED	yellow
Connection	M12 connector, gold-plated contacts

Wiring



Accessories (included)

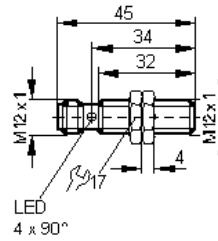
2 lock nuts

IFC204

IFB3004BBPKG/M/US
Metal thread M12 x 1
Plug and socket

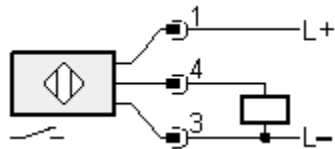
Increased sensing range
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 68 *) ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: LCP
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Remarks

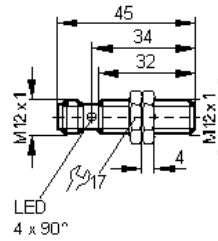
*) "Coolant"

IFC207

IFB3004BAPKG/M/US
Metal thread M12 x 1
Plug and socket

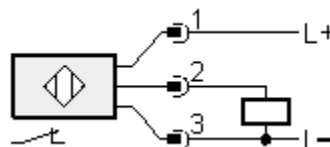
Increased sensing range
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	DC PNP
Output	normally closed
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 68 *) ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: LCP
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Remarks

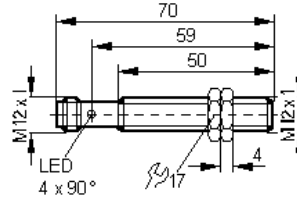
*) "Coolant"

IFC210

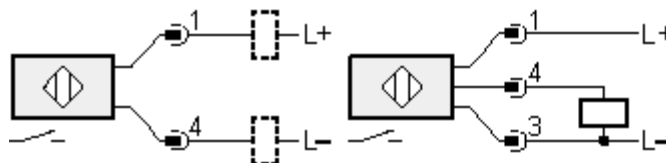
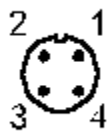
IFKC004BASKG/M/US
Metal thread M12 x 1
Plug and socket

Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	100
Minimum load current [mA]	4
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.8
Leakage current [mA]	< 0.9
Current consumption [mA]	< 12 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	500
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 68 *) ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: ceramics
Function display	
Switching status LED	yellow (4 x 90°)
Setting aid LED	red
Connection	M12 connector, gold-plated contacts
Wiring	



Remarks

Accessories (included)

ifm electronic gmbh · Teichstraße 4 · D-45127
Essen

*) "Coolant"

2 lock nuts

— We reserve the right to make technical alterations without prior notice. — GB - IFC210 — 06.03.2003

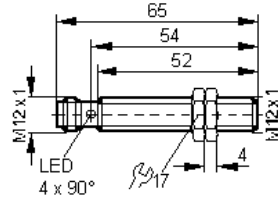
Inductive proximity switches

IFC245

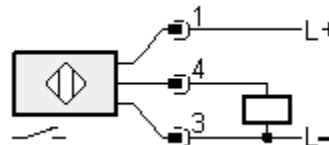
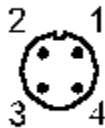
IFK3003BBPKG/K1/M/US
Metal thread M12 x 1
Plug and socket

Electromagnetic-field immune
gold-plated contacts
Correction factor = 1

Sensing range 3mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...30 DC *)
Current rating [mA]	200
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	20
Real sensing range [mm]	3 ± 10 %
Operating distance [mm]	0...2.4
Switch-point drift [% / Sr]	-10...10
Switching frequency [Hz]	> 2000
Correction factors	mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / Al approx. 1 / Cu approx. 1
Operating temperature [°C]	-25...70
Protection	IP 68 **) ☐
Housing material	housing: V4A (316S12) active face: LCP
Function display	
Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts
Wiring	



Remarks

*) operating voltage "supply class II" to cULus.
**) "Coolant"

Accessories (included)

2 lock nuts

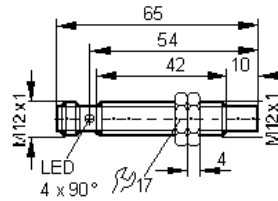
Inductive proximity switches

IFC246

IFK3008-BPKG/K1/M/US
Metal thread M12 x 1
Plug and socket

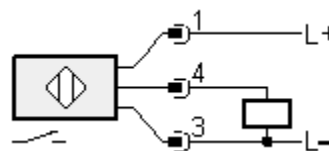
Electromagnetic-field immune
gold-plated contacts
Correction factor = 1

Sensing range 8mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...30 DC *)
Current rating [mA]	200
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.1
Current consumption [mA]	20
Real sensing range [mm]	8 ± 10 %
Operating distance [mm]	0...6.5
Switch-point drift [% / Sr]	-10...10
Switching frequency [Hz]	> 2000
Correction factors	mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / Al approx. 1 / Cu approx. 1
Operating temperature [°C]	-25...70
Protection	IP 68 **) ☐
Housing material	housing: V4A (316S12) active face: LCP
Function display	
Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Remarks

*) operating voltage "supply class II" to cULus.
**) "Coolant"

Accessories (included)

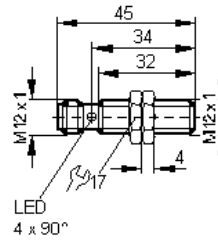
2 lock nuts

IFS204

IFB3004BBPKG/M/US
Metal thread M12 x 1
Plug and socket

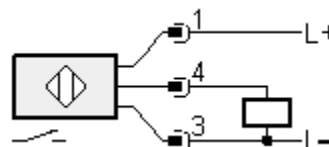
Increased sensing range
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: PBT
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Accessories (included)

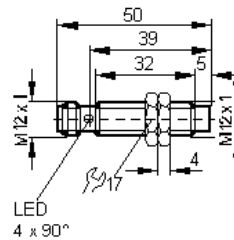
2 lock nuts

IFS205

IFB3007-BPKG/M/US
Metal thread M12 x 1
Plug and socket

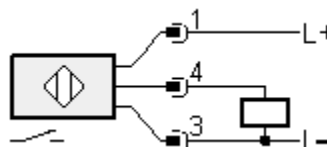
Increased sensing range
gold-plated contacts

Sensing range 7mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: PBT
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Accessories (included)

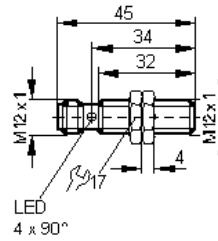
2 lock nuts

IFS206

IFB3004BAPKG/M/US
Metal thread M12 x 1
Plug and socket

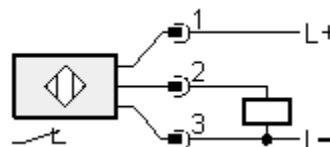
Increased sensing range
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	DC PNP
Output	normally closed
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 67 ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: PBT
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Accessories (included)

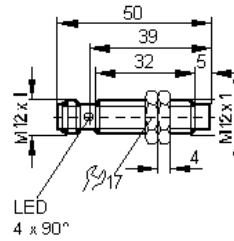
2 lock nuts

IFS207

IFB3007-APKG/M/US
Metal thread M12 x 1
Plug and socket

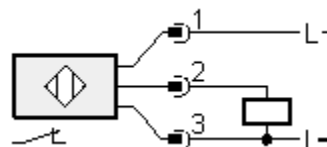
Increased sensing range
gold-plated contacts

Sensing range 7mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally closed
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: PBT
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector

Wiring



Accessories (included)

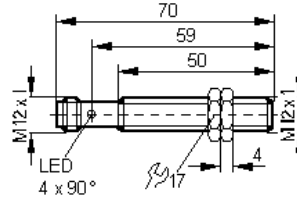
2 lock nuts

IFS208

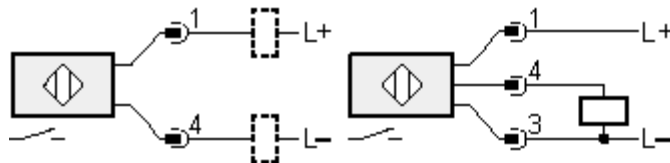
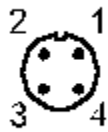
IFKC004BASKG/M/US
Metal thread M12 x 1
Plug and socket

Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	100
Minimum load current [mA]	4 *)
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.8
Leakage current [mA]	< 0.9 *)
Current consumption [mA]	< 12 (24 V)
Real sensing range [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	500
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 67 ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: PBT
Function display	
Switching status LED	yellow (4 x 90°)
Setting aid LED	red
Connection	M12 connector
Wiring	



Remarks

*) only in 2-wire operation

Accessories (included)

2 lock nuts

ifm electronic gmbh · Teichstraße 4 · D-45127
Essen

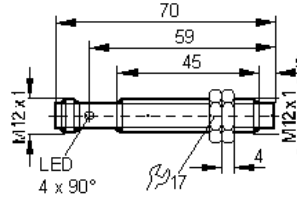
— We reserve the right to make technical alterations without prior notice. — GB - IFS208 — 06.03.2003

IFS209

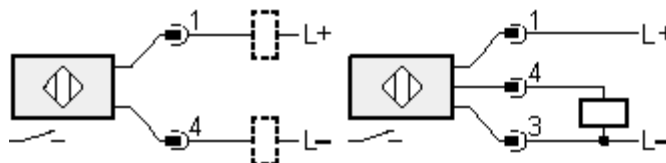
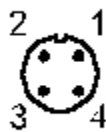
IFKC007-ASKG/M/US
Metal thread M12 x 1
Plug and socket

Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts

Sensing range 7mm [nf]
non-flush mountable



Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	100
Minimum load current [mA]	4 *)
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.8
Leakage current [mA]	< 0.9 *)
Current consumption [mA]	< 12 (24 V)
Real sensing range [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	500
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-25...70
Protection	IP 67 ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	brass special coated active face: PBT
Function display	
Switching status LED	yellow (4 x 90°)
Setting aid LED	red
Connection	M12 connector
Wiring	



Remarks

*) only in 2-wire operation

Accessories (included)

2 lock nuts

ifm electronic gmbh · Teichstraße 4 · D-45127
Essen

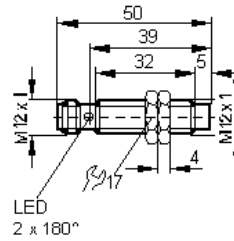
— We reserve the right to make technical alterations without prior notice. — GB - IFS209 — 06.03.2003

IFT200

IFB3007-BPKG/M/V4A/US
Metal thread M12 x 1
Plug and socket

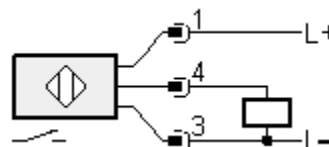
Increased sensing range
gold-plated contacts

Sensing range 7mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	0...100
Protection	IP 68 / IP 69 K
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	V4A (316S12) active face: PEEK (polyether-etherketone)
Function display Switching status LED	yellow (2 x 180°)
Connection	M12 connector, gold-plated contacts

Wiring



Accessories (included)

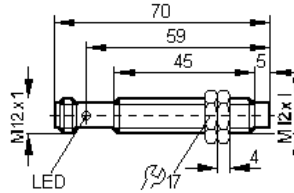
2 lock nuts

IFT202

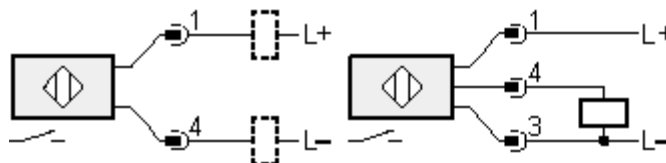
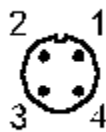
IFKC007-ASKG/M/V4A/US
Metal thread M12 x 1
Plug and socket

Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts

Sensing range 7mm [nf]
non-flush mountable



Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	100
Minimum load current [mA]	4 *)
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.8
Leakage current [mA]	< 0.9 *)
Current consumption [mA]	< 12 (24 V)
Real sensing range [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	0...100
Protection	IP 68 / IP 69 K ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	V4A (316S12) active face: PEEK (polyether-etherketone)
Function display	
Switching status LED	yellow
Setting aid LED	red
Connection	M12 connector, gold-plated contacts
Wiring	



Remarks

*) only in 2-wire operation

Accessories (included)

2 lock nuts

ifm electronic gmbh · Teichstraße 4 · D-45127
Essen

— We reserve the right to make technical alterations without prior notice. — GB - IFT202 — 06.03.2003

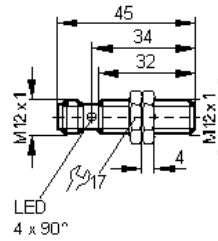
Inductive proximity switches

IFT203

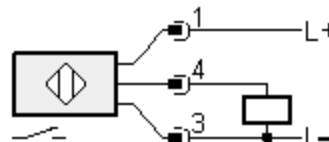
IFB3004BBPKG/M/V4A/US
Metal thread M12 x 1
Plug and socket

Increased sensing range
gold-plated contacts

Sensing range 4mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Operating distance [mm]	0...3.25
Hysteresis [% / Sr]	1...20
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	0...100
Protection	IP 68 / IP 69 K ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	V4A (316S12) active face: PEEK (polyether-etherketone)
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts
Wiring	
Accessories (included)	2 lock nuts

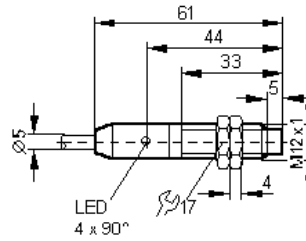


IFT208

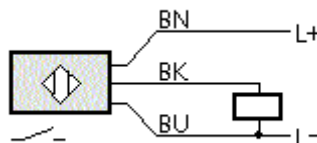
IFB3007-BPKG/M/V4A/6m
Metal thread M12 x 1
Cable

Increased sensing range

Sensing range 7mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10 (24 V)
Real sensing range [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	0...100
Protection	IP 68 / IP 69 K
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	V4A (316S12) active face: PEEK (polyether-etherketone)
Function display Switching status LED	yellow (4 x 90°)
Connection	PVC cable / 6 m; 3 x 0.34 mm ²
Wiring	



Accessories (included)

2 lock nuts

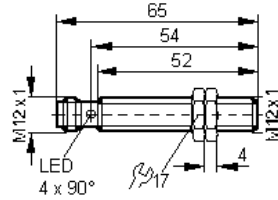
Inductive proximity switches

IFW200

IFK3003BBPKG/K1/SC/M/US
Metal thread M12 x 1
Plug and socket

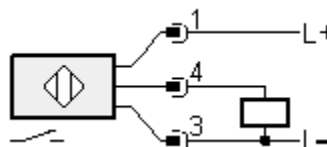
Electromagnetic-field immune
gold-plated contacts
Correction factor = 1

Sensing range 3mm [f]
flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	200
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 20
Real sensing range [mm]	3 ± 10 %
Operating distance [mm]	0...2.4
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	4000
Correction factors	mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / Al approx. 1 / Cu approx. 1
Operating temperature [°C]	-25...70
Protection	IP 67 ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	housing: brass safe-coated active face: Duroplast (PF)
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Remarks

Betriebsspannung "supply class II" gemäß cULus

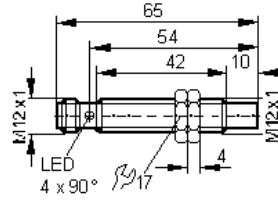
Inductive proximity switches

IFW201

IFK3008-BPKG/K1/SC/M/US
Metal thread M12 x 1
Plug and socket

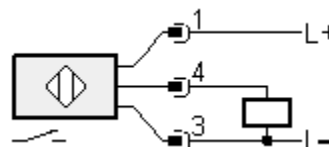
Electromagnetic-field immune
gold-plated contacts
Correction factor = 1

Sensing range 8mm [nf]
non-flush mountable



Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...30 DC
Current rating [mA]	200
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 20
Real sensing range [mm]	8 ± 10 %
Operating distance [mm]	0...6.5
Switch-point drift [% / Sr]	-10...10
Hysteresis [% / Sr]	3...15
Switching frequency [Hz]	4000
Correction factors	mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / Al approx. 1 / Cu approx. 1
Operating temperature [°C]	-25...70
Protection	IP 67
EMC	IEC 1000-4-2 / EN 61000-4-2: 4 kV / CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	housing: brass safe-coated active face: Duroplast (PF)
Function display Switching status LED	yellow (4 x 90°)
Connection	M12 connector, gold-plated contacts

Wiring



Remarks

Betriebspannung "supply class II" gemäß cULus