

Inductive four-wire NPN sensors

housing					
	M12X1Ni PLATED Brass	M12X1Ni PLATED Brass	M12X1Ni PLATED Brass	M12X1Ni PLATED Brass	M12X1Ni PLATED Brass
code	IPS-402-N-12	IPS-402-N-12-V	IPS-402-N-12-S4	IPS-402-N-12-V-S4	IPS-404-N-12
number of wires	4	4	4	4	4
switching distance	2 mm	2 mm	2 mm	2 mm	4 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP67	IP66	IP66	IP67
output	CABLE4X0.25-1.5m	CABLE3X0.25-1.5m	4Pin SOCKET	4Pin SOCKET	CABLE4X0.25-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-30VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	1500 Hz	1500 Hz	1500 Hz	1500 Hz	1500 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	flush(shielded)	flush(shielded)	flush(shielded)	flush(shielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

Central office : No 36 , karimkhan ave. , darvazeh tehran , tabriz , iran ; zip code : 5157913399 ; P.O. box : 51575-5140  
 Email : [info@tabrizpeguh.com](mailto:info@tabrizpeguh.com) ; Website : [www.tabrizpeguh.com](http://www.tabrizpeguh.com) ; Tel : +984133330490 ; Fax : +984133318200

Inductive four-wire NPN sensors

housing					
	M12X1Ni PLATED Brass	M12X1Ni PLATED Brass	M12X1Ni PLATED Brass	M14X1Ni PLATED Brass	M14X1Ni PLATED Brass
code	IPS-404-N-12-V	IPS-404-N-12-S4	IPS-404-N-12-V-S4	IPS-403-N-14	IPS-403-N-14-V
number of wires	4	4	4	4	4
switching distance	4 mm	4 mm	4 mm	3 mm	3 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP66	IP66	IP67	IP67
output	CABLE3X0.25-1.5m	4Pin SOCKET	4Pin SOCKET	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	1500 Hz	1500 Hz	1500 Hz	1500 Hz	1500 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	flush(shielded)	flush(shielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

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Inductive four-wire NPN sensors

housing					
	M14X1Ni PLATED Brass	M14X1Ni PLATED Brass	M14X1Ni PLATED Brass	M14X1Ni PLATED Brass	M14X1Ni PLATED Brass
code	IPS-403-N-14-S4	IPS-403-N-14-V-S4	IPS-405-N-14	IPS-405-N-14-V	IPS-405-N-14-S4
number of wires	4	4	4	4	4
switching distance	3 mm	3 mm	5 mm	5 mm	5 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP66	IP66	IP67	IP67	IP66
output	4Pin SOCKET	4Pin SOCKET	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	4Pin SOCKET
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-30VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	1500 Hz	1500 Hz	1000 Hz	1000 Hz	1000 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	flush(shielded)	flush(shielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

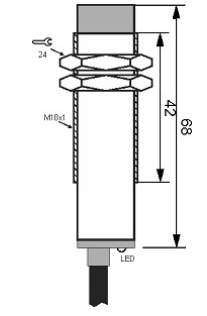
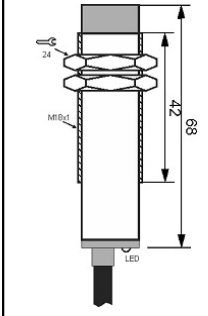
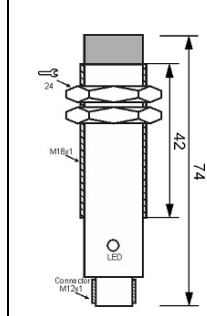
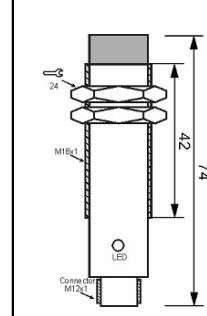
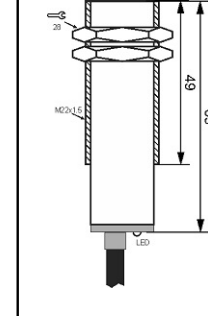
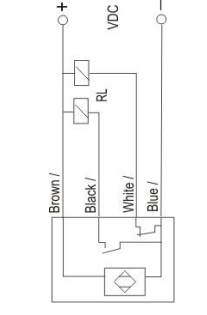
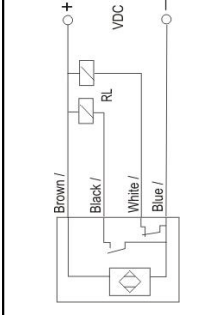
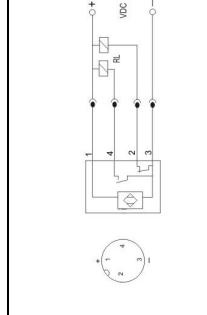
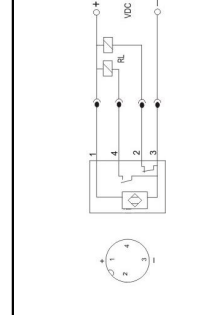
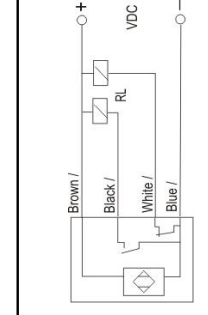
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housing					
	M14X1Ni PLATED Brass	M18X1Ni PLATED Brass	M18X1Ni PLATED Brass	M18X1Ni PLATED Brass	M18X1Ni PLATED Brass
code	IPS-405-N-14-V-S4	IPS-405-N-18	IPS-405-N-18-V	IPS-405-N-18-S4	IPS-405-N-18-V-S4
number of wires	4	4	4	4	4
switching distance	5 mm	5 mm	5 mm	5 mm	5 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP66	IP67	IP67	IP66	IP66
output	4Pin SOCKET	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	4Pin SOCKET	4Pin SOCKET
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	1000 Hz	700 Hz	700 Hz	700 Hz	700 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	flush(shielded)	flush(shielded)	flush(shielded)	flush(shielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

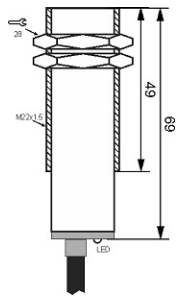
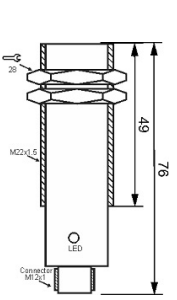
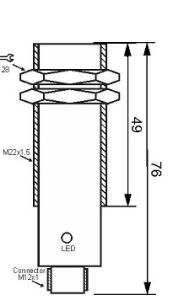
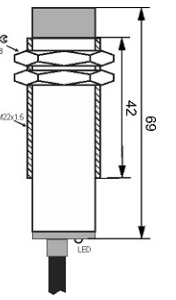
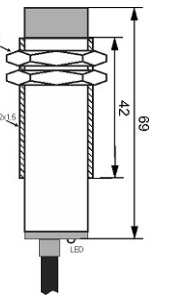
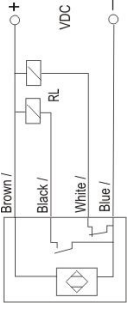
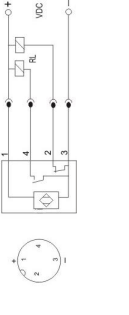
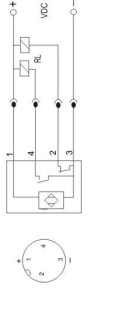
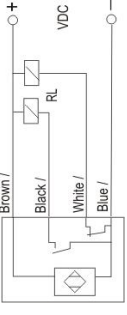
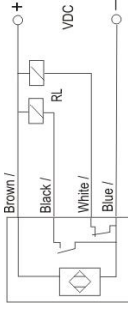
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Inductive four-wire NPN sensors

housing					
	M18X1Ni PLATED Brass	M18X1Ni PLATED Brass	M18X1Ni PLATED Brass	M18X1Ni PLATED Brass	M22X1.5Ni PLATED Brass
code	IPS-408-N-18	IPS-408-N-18-V	IPS-408-N-18-S4	IPS-408-N-18-V-S4	IPS-408-N-22
number of wires	4	4	4	4	4
switching distance	8 mm	8 mm	8 mm	8 mm	8 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP67	IP66	IP66	IP67
output	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	4Pin SOCKET	4Pin SOCKET	CABLE4X0.25-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-30VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	700 Hz	700 Hz	700 Hz	700 Hz	500 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	flush(shielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

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Inductive four-wire NPN sensors

housing					
	M22X1.5Ni PLATED Brass	M22X1.5Ni PLATED Brass	M22X1.5Ni PLATED Brass	M22X1.5Ni PLATED Brass	M22X1.5Ni PLATED Brass
code	IPS-408-N-22-V	IPS-408-N-22-S4	IPS-408-N-22-V-S4	IPS-410-N-22	IPS-410-N-22-V
number of wires	4	4	4	4	4
switching distance	8 mm	8 mm	8 mm	10 mm	10 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP66	IP66	IP67	IP67
output	CABLE4X0.25-1.5m	4Pin SOCKET	4Pin SOCKET	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	500 Hz	500 Hz	500 Hz	500 Hz	500 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	flush(shielded)	flush(shielded)	flush(shielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

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Inductive four-wire NPN sensors

housing					
	M22X1.5Ni PLATED Brass	M22X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass
code	IPS-410-N-22-S4	IPS-410-N-22-V-S4	IPS-410-N-30	IPS-410-N-30-V	IPS-410-N-30-S4
number of wires	4	4	4	4	4
switching distance	10 mm	10 mm	10 mm	10 mm	10 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP66	IP66	IP67	IP67	IP66
output	4Pin SOCKET	4Pin SOCKET	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	4Pin SOCKET
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-30VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	500 Hz	500 Hz	300 Hz	300 Hz	300 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	flush(shielded)	flush(shielded)	flush(shielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

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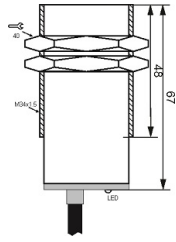
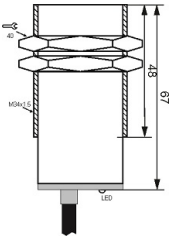
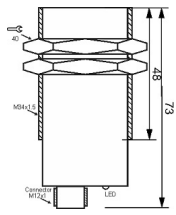
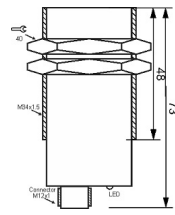
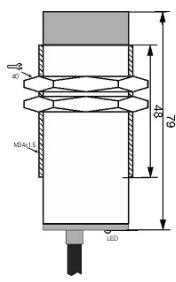
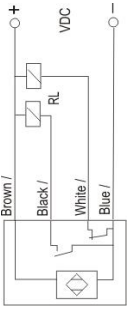
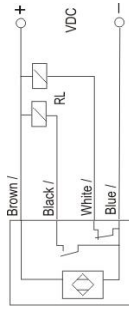
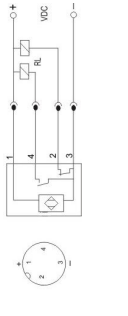
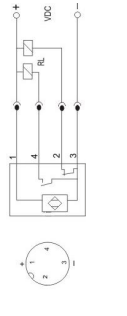
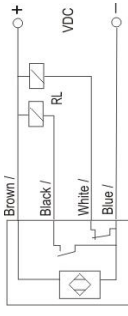
Inductive four-wire NPN sensors

housing					
	M30X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass	M30X1.5Ni PLATED Brass
code	IPS-410-N-30-V-S4	IPS-415-N-30	IPS-415-N-30-V	IPS-415-N-30-S4	IPS-415-N-30-V-S4
number of wires	4	4	4	4	4
switching distance	10 mm	15 mm	15 mm	15 mm	15 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP66	IP67	IP67	IP66	IP66
output	4Pin SOCKET	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	4Pin SOCKET	4Pin SOCKET
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	300 Hz	300 Hz	300 Hz	300 Hz	300 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	flush(shielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

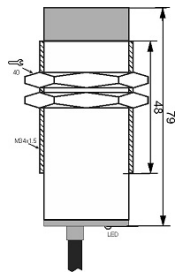
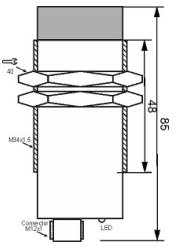
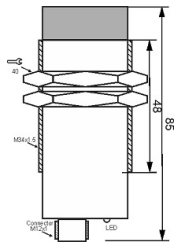
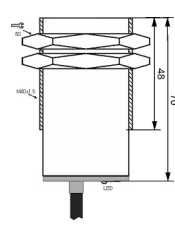
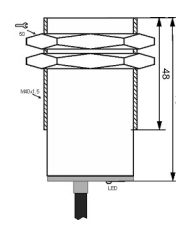
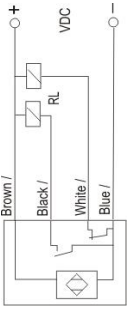
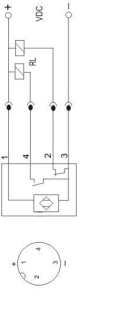
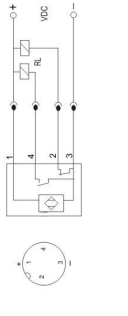
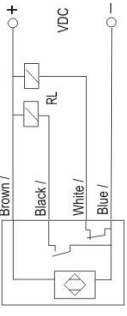
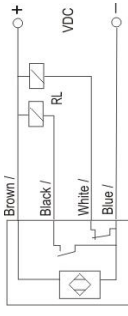
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Inductive four-wire NPN sensors

housing					
	M34X1.5Ni PLATED Brass	M34X1.5Ni PLATED Brass	M34X1.5Ni PLATED Brass	M34X1.5Ni PLATED Brass	M34X1.5Ni PLATED Brass
code	IPS-415-N-34	IPS-415-N-34-V	IPS-415-N-34-S4	IPS-415-N-34-V-S4	IPS-420-N-34
number of wires	4	4	4	4	4
switching distance	15 mm	15 mm	15 mm	15 mm	20 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP67	IP66	IP66	IP67
output	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	4Pin SOCKET	4Pin SOCKET	CABLE4X0.35-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-30VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	300 Hz	300 Hz	300 Hz	300 Hz	300 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max noload or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	flush(shielded)	flush(shielded)	flush(shielded)	flush(shielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

Inductive four-wire NPN sensors

housing					
	M34X1.5Ni PLATED Brass	M34X1.5Ni PLATED Brass	M34X1.5Ni PLATED Brass	M40X1.5Ni PLATED Brass	M40X1.5Ni PLATED Brass
code	IPS-420-N-34-V	IPS-420-N-34-S4	IPS-420-N-34-V-S4	IPS-420-N-40	IPS-420-N-40-V
number of wires	4	4	4	4	4
switching distance	20 mm	20 mm	20 mm	20 mm	20 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP66	IP66	IP67	IP67
output	CABLE4X0.35-1.5m	4Pin SOCKET	4Pin SOCKET	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	300 Hz	300 Hz	300 Hz	300 Hz	300 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max noload or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	flush(shielded)	flush(shielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

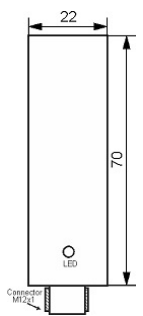
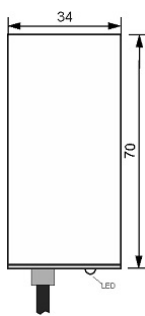
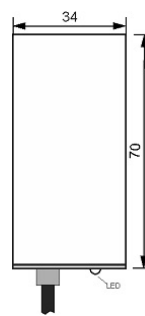
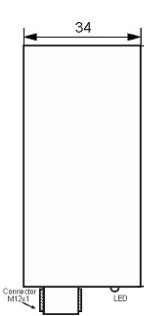

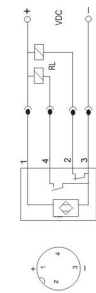
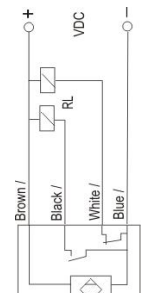
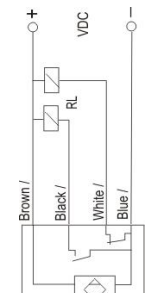
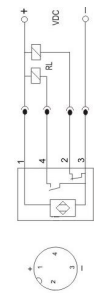
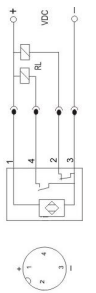
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Inductive four-wire NPN sensors

housing					
	M40X1.5Ni PLATED Brass	M40X1.5Ni PLATED Brass	22mm dia. PA or PP	22mm dia. PA or PP	22mm dia. PA or PP
code	IPS-420-N-40-V-S4	IPS-420-N-40-S4	IPS-410-N-P22	IPS-410-N-P22-V	IPS-410-N-P22-S4
number of wires	4	4	4	4	4
switching distance	20 mm	20 mm	10 mm	10 mm	10 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP66	IP66	IP67	IP67	IP66
output	4Pin SOCKET	4Pin SOCKET	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	4Pin SOCKET
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	300 Hz	300 Hz	500 Hz	500 Hz	500 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	flush(shielded)	flush(shielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

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Inductive four-wire NPN sensors

housing					
	22mm dia. PA or PP	34mm dia. PA or PP	34mm dia. PA or PP	34mm dia. PA or PP	34mm dia. PA or PP
code	IPS-410-N-P22-V-S4	IPS-420-N-P34	IPS-420-N-P34-V	IPS-420-N-P34-S4	IPS-420-N-P34-V-S4
number of wires	4	4	4	4	4
switching distance	10 mm	20 mm	20 mm	20 mm	20 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP66	IP67	IP67	IP66	IP66
output	4Pin SOCKET	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	4Pin SOCKET	4Pin SOCKET
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	500 Hz	300 Hz	300 Hz	300 Hz	300 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

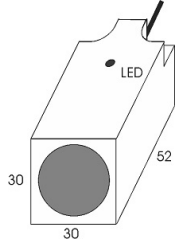
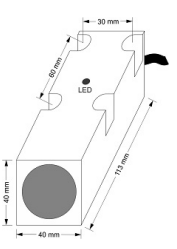
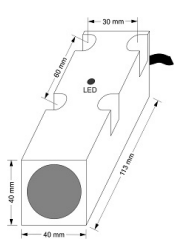
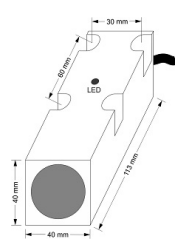
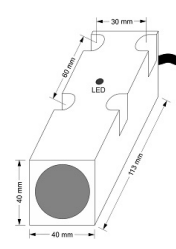
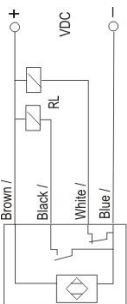
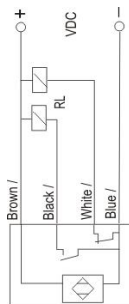
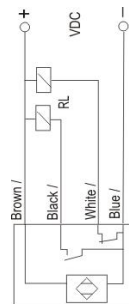
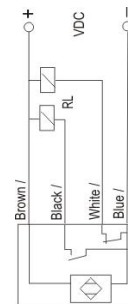
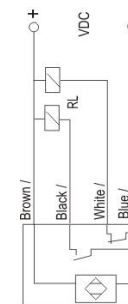
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Inductive four-wire NPN sensors

housing					
	REC. 10X50X25 PA or PP	REC. 10X50X25 PA or PP	REC. 12X40X25 PA or PP	REC. 12X40X25 PA or PP	REC. 30X30X52 PA or PP
code	IPS-405-N-R10	IPS-405-N-R10-V	IPS-404-N-R12	IPS-404-N-R12-V	IPS-410-N-R30
number of wires	4	4	4	4	4
switching distance	5 mm	5 mm	4 mm	4 mm	10 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP67	IP67	IP67	IP67
output	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	CABLE4X0.25-1.5m	CABLE4X0.35-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-30VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	1000 Hz	1000 Hz	1500 Hz	1500 Hz	500 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

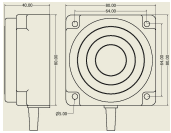
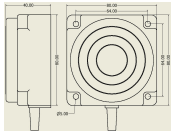
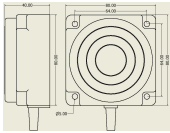
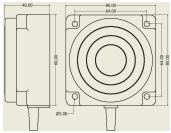
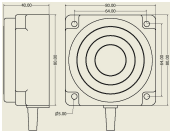
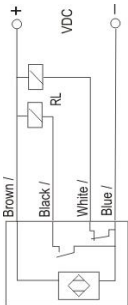
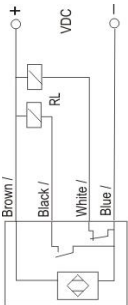
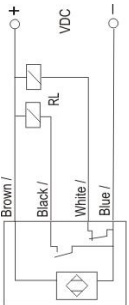
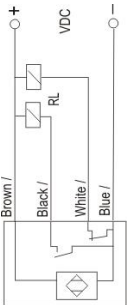
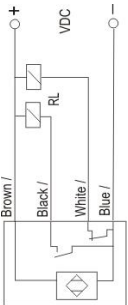
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Inductive four-wire NPN sensors

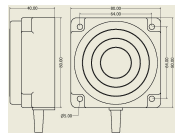
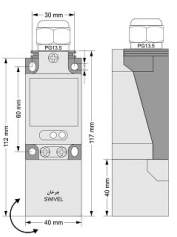
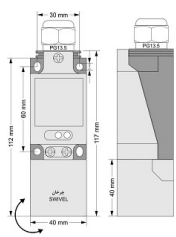
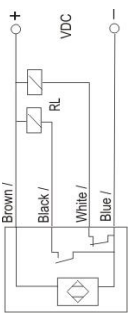
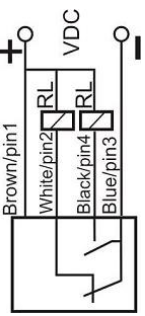
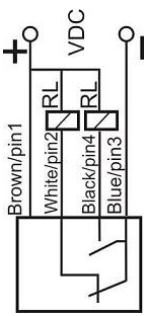
housing					
	REC. 30X30X52 PA or PP	REC. 40X40X113 PA or PP	REC. 40X40X113 PA or PP	REC. 40X40X113 PA or PP	REC. 40X40X113 PA or PP
code	IPS-410-N-R30-V	IPS-420-N-R40-T	IPS-420-N-R40-V-T	IPS-420-N-R40	IPS-420-N-R40-V
number of wires	4	4	4	4	4
switching distance	10 mm	20 mm	20 mm	20 mm	20 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP66	IP66	IP67	IP67
output	CABLE4X0.35-1.5m	TERMINAL	TERMINAL	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-30VDC	10-60VDC	10-30VDC	10-60VDC
max output current	250 mA	250 mA	250 mA	250 mA	250 mA
max output frequency	500 Hz	300 Hz	300 Hz	300 Hz	300 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

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Inductive four-wire NPN sensors

housing					
	REC. 80X80X40 PA or PP	REC. 80X80X40 PA or PP	REC. 80X80X40 PA or PP	REC. 80X80X40 PA or PP	REC. 80X80X40 PA or PP
code	IPS-435-N-R80-VI	IPS-445-N-R80-VI	IPS-435-N-R80	IPS-435-N-R80-V	IPS-445-N-R80
number of wires	4	4	4	4	4
switching distance	35 mm	45 mm	35 mm	35 mm	45 mm
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
influence protection	IP67	IP67	IP67	IP67	IP67
output	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m	CABLE4X0.35-1.5m
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR
output function	NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
voltage range	10-60VDC	10-60VDC	10-30VDC	10-60VDC	10-30VDC
max output current	450 mA	450 mA	250 mA	250 mA	250 mA
max output frequency	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz
indicator led	yes	yes	yes	yes	yes
max drop voltage	2 V	2 V	2 V	2 V	2 V
max no-load or leakage current	15 mA	15 mA	15 mA	15 mA	15 mA
pressure rate	3 bar	3 bar	3 bar	3 bar	3 bar
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)
revers voltage protection	yes	yes	yes	yes	yes
short circuit protection	no	no	no	no	no
pick voltage protection	yes	yes	yes	yes	yes
circuit					

Inductive four-wire NPN sensors

housing					
	REC. 80X80X40 PA or PP	SWIVEL REC. 40X40X113 PA	SWIVEL REC. 40X40X113 PA		
code	IPS-445-N-R80-V	IPS-420-N-SR40	IPS-420-N-SR40-V		
number of wires	4	4	4		
output type		NPN TRANSISTOR	NPN TRANSISTOR		
switching distance	45 mm	20 mm	20 mm		
temperature range	-20~+60 °C	-20~+60 °C	-20~+60 °C		
influence protection	IP67	IP67	IP67		
output	CABLE4X0.35-1.5m	CABLE2X0.5+TERMINAL	CABLE2X0.5+TERMINAL		
output stage	NPN TRANSISTOR	NPN TRANSISTOR	NPN TRANSISTOR		
output function	NO+NC	NO+NC	NO+NC		
voltage range	10-60VDC	10-30VDC	10-60VDC		
max output current	250 mA	250 mA	250 mA		
max output frequency	100 Hz	300 Hz	300 Hz		
indicator led	yes	yes	yes		
max drop voltage	2 V	2 V	2 V		
max no-load or leakage current	15 mA	15 mA	15 mA		
pressure rate	3 bar	3bar	3bar		
mounting	non flush (unshielded)	non flush (unshielded)	non flush (unshielded)		
revers voltage protection	yes	yes	yes		
short circuit protection	no	no	no		
pick voltage protection	yes	yes	yes		
circuit					

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