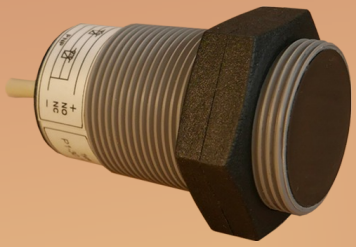
"ESA Control" Ltd

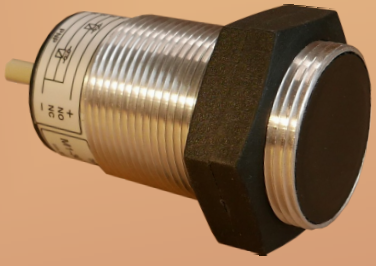


ALTERNATING CURRENT

INDUCTIVE

PROXIMITY SENSORS

AC, 2-wire



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Inductive proximity sensors for alternating current, 2-wire

AC

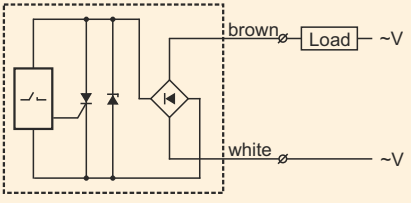
Purpose and areas of application

The presented inductive proximity sensors serve to commutate 2-wire alternating current electric circuits. They act on the basis of induction - if a metal piece is brought to the active surface, the output switches over - the electric circuit opens or shuts. Lack of physical contact between object and inductive proximity sensors ensures their high reliability and long-lasting exploitation. They are used for automatic transfer lines, metalworking machines, textile, wood working, packaging and other machines. They find place in solving automation problems, especially in conditions of: high quantity of dust, moisture, lubricants and oils, under vibrations and prolonged regime of working.

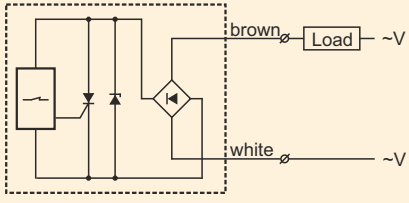
Technical parameters

Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20… 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current, *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Operating temperature range, *Tamb*	-25…+70°C
Hysteresis, *h*	4...15%
Output	Thyristor
Degree of protection of the sensors	IP67 (IEC144)
Joining - cable “LIYY” (grey)	2x0.5 mm^2, L=2 m

Schemes of connection

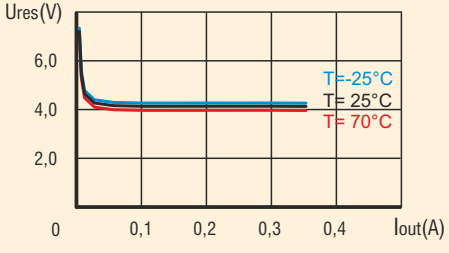


Scheme 71 (NO)



Scheme 72 (NC)

Output characteristic /residual voltage/



M12 inductive proximity sensor for alternating current, 2-wire, shielded type

M1-12

fig.1

Operating principle

The presented inductive proximity sensor M12 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

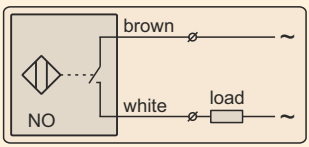
Operating distance, Sn	3.5 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M12x1, L=56 mm
Housing - metallic	CuZn (Ni plated)

Features:
No protection of the output from overcurrent and short circuit.

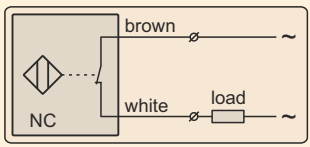
Type parameters

Type	Supply voltage	Output function	Scheme of connection
M1-12.71.U1	90...240 VAC	NO	71
M1-12.72.U1	90...240 VAC	NC	72
M1-12.71.U2	40...100 VAC	NO	71
M1-12.72.U2	40...100 VAC	NC	72
M1-12.71.U3	20...50 VAC	NO	71
M1-12.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M12 inductive proximity sensor for alternating current, 2-wire, unshielded type

P1-12

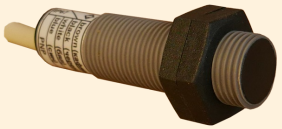


fig.1

Operating principle

The presented inductive proximity sensor M12 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

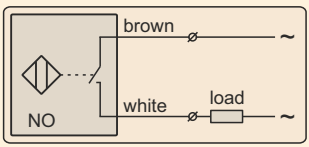
Operating distance, Sn	5.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M12x1, L=56 mm
Housing - plastic	PVC

Features:
No protection of the output from overcurrent and short circuit.

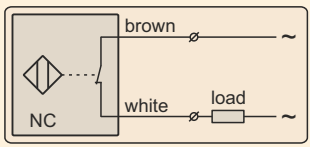
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P1-12.71.U1	90...240 VAC	NO	71
P1-12.72.U1	90...240 VAC	NC	72
P1-12.71.U2	40...100 VAC	NO	71
P1-12.72.U2	40...100 VAC	NC	72
P1-12.71.U3	20...50 VAC	NO	71
P1-12.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M14 inductive proximity sensor for alternating current, 2-wire, shielded type

M1-14

fig.1

Operating principle

The presented inductive proximity sensor M14 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

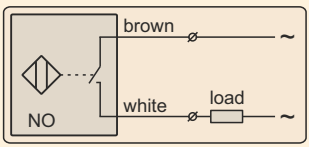
Operating distance, Sn	3.5 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M14x1, L=56 mm
Housing - metallic	CuZn (Ni plated)

Features:
No protection of the output from overcurrent and short circuit.

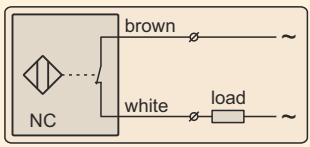
Type parameters

Type	Supply voltage	Output function	Scheme of connection
M1-14.71.U1	90...240 VAC	NO	71
M1-14.72.U1	90...240 VAC	NC	72
M1-14.71.U2	40...100 VAC	NO	71
M1-14.72.U2	40...100 VAC	NC	72
M1-14.71.U3	20...50 VAC	NO	71
M1-14.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M14 inductive proximity sensor for alternating current, 2-wire, unshielded type

fig.1

Operating principle

The presented inductive proximity sensor M14 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

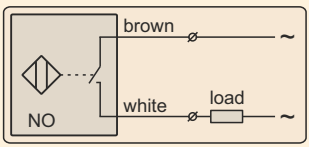
Operating distance, Sn	5.5 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M14x1, L=56 mm
Housing - plastic	PVC

Features:
No protection of the output from overcurrent and short circuit.

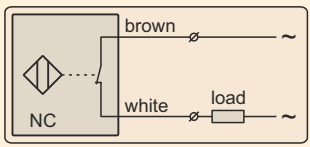
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P1-14.71.U1	90...240 VAC	NO	71
P1-14.72.U1	90...240 VAC	NC	72
P1-14.71.U2	40...100 VAC	NO	71
P1-14.72.U2	40...100 VAC	NC	72
P1-14.71.U3	20...50 VAC	NO	71
P1-14.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M18 inductive proximity sensor for alternating current, 2-wire, shielded type

M1-18

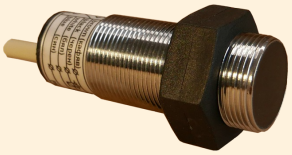


fig.1

Operating principle

The presented inductive proximity sensor M18 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

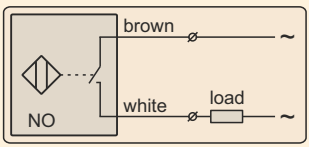
Operating distance, Sn	5.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M18x1, L=59 mm
Housing - metallic	CuZn (Ni plated)

Features:
No protection of the output from overcurrent and short circuit.

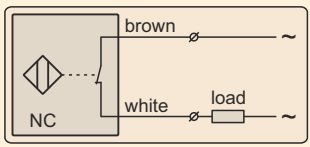
Type parameters

Type	Supply voltage	Output function	Scheme of connection
M1-18.71.U1	90...240 VAC	NO	71
M1-18.72.U1	90...240 VAC	NC	72
M1-18.71.U2	40...100 VAC	NO	71
M1-18.72.U2	40...100 VAC	NC	72
M1-18.71.U3	20...50 VAC	NO	71
M1-18.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M18 inductive proximity sensor for alternating current, 2-wire, unshielded type

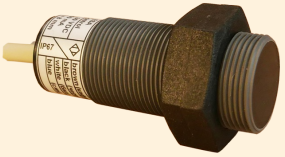


fig.1

Operating principle

The presented inductive proximity sensor M18 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

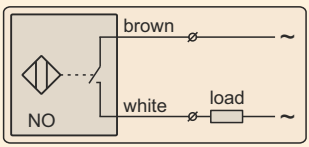
Operating distance, Sn	8.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M18x1, L=59 mm
Housing - plastic	PVC

Features:
No protection of the output from overcurrent and short circuit.

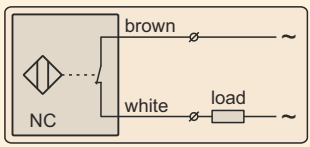
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P1-18.71.U1	90...240 VAC	NO	71
P1-18.72.U1	90...240 VAC	NC	72
P1-18.71.U2	40...100 VAC	NO	71
P1-18.72.U2	40...100 VAC	NC	72
P1-18.71.U3	20...50 VAC	NO	71
P1-18.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M22 inductive proximity sensor for alternating current, 2-wire, shielded type

M1-22

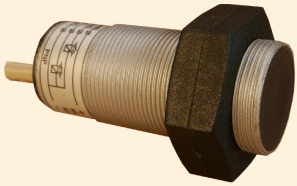


fig.1

Operating principle

The presented inductive proximity sensor M22 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

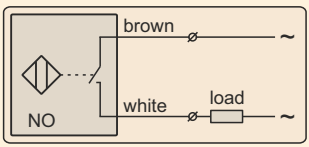
Operating distance, Sn	6.5 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M22x1, L=59 mm
Housing - metallic	CuZn (Ni plated)

Features:
No protection of the output from overcurrent and short circuit.

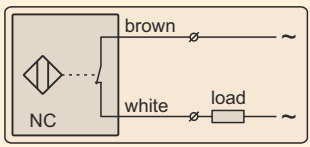
Type parameters

Type	Supply voltage	Output function	Scheme of connection
M1-22.71.U1	90...240 VAC	NO	71
M1-22.72.U1	90...240 VAC	NC	72
M1-22.71.U2	40...100 VAC	NO	71
M1-22.72.U2	40...100 VAC	NC	72
M1-22.71.U3	20...50 VAC	NO	71
M1-22.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M22 inductive proximity sensor for alternating current, 2-wire, unshielded type

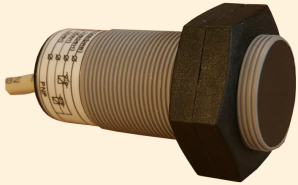


fig.1

Operating principle

The presented inductive proximity sensor M22 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

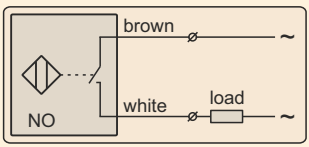
Operating distance, Sn	10.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M22x1, L=59 mm
Housing - plastic	PVC

Features:
No protection of the output from overcurrent and short circuit.

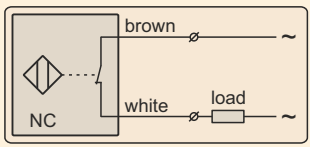
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P1-22.71.U1	90...240 VAC	NO	71
P1-22.72.U1	90...240 VAC	NC	72
P1-22.71.U2	40...100 VAC	NO	71
P1-22.72.U2	40...100 VAC	NC	72
P1-22.71.U3	20...50 VAC	NO	71
P1-22.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M30 inductive proximity sensor for alternating current, 2-wire, shielded type

M1-30

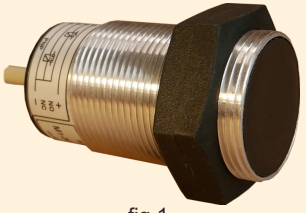


fig.1

Operating principle

The presented inductive proximity sensor M30 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

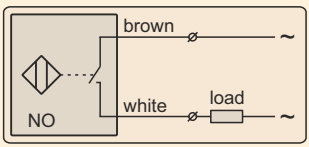
Operating distance, Sn	9.5 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M30x1.5, L=61 mm
Housing - metallic	Al (aluminum)

Features:
No protection of the output from overcurrent and short circuit.

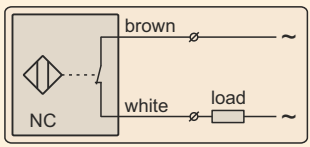
Type parameters

Type	Supply voltage	Output function	Scheme of connection
M1-30.71.U1	90...240 VAC	NO	71
M1-30.72.U1	90...240 VAC	NC	72
M1-30.71.U2	40...100 VAC	NO	71
M1-30.72.U2	40...100 VAC	NC	72
M1-30.71.U3	20...50 VAC	NO	71
M1-30.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M30 inductive proximity sensor for alternating current, 2-wire, unshielded type

P1-30

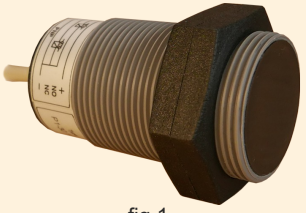


fig.1

Operating principle

The presented inductive proximity sensor M30 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

Operating distance, Sn	14.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M30x1.5, L=61 mm
Housing - plastic	PVC

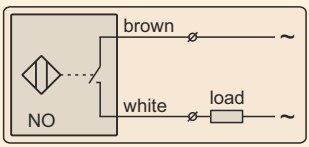
Features:

No protection of the output from overcurrent and short circuit.

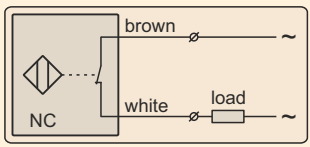
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P1-30.71.U1	90...240 VAC	NO	71
P1-30.72.U1	90...240 VAC	NC	72
P1-30.71.U2	40...100 VAC	NO	71
P1-30.72.U2	40...100 VAC	NC	72
P1-30.71.U3	20...50 VAC	NO	71
P1-30.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M40 inductive proximity sensor for alternating current, 2-wire, shielded type

M1-40

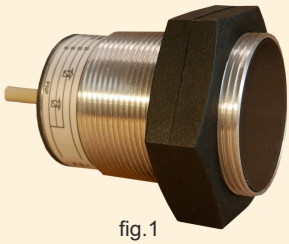


fig.1

Operating principle

The presented inductive proximity sensor M40 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

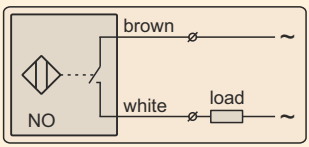
Operating distance, Sn	14.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M40x1.5, L=55 mm
Housing - metallic	Al (aluminum)

Features:
No protection of the output from overcurrent and short circuit.

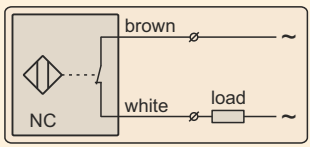
Type parameters

Type	Supply voltage	Output function	Scheme of connection
M1-40.71.U1	90...240 VAC	NO	71
M1-40.72.U1	90...240 VAC	NC	72
M1-40.71.U2	40...100 VAC	NO	71
M1-40.72.U2	40...100 VAC	NC	72
M1-40.71.U3	20...50 VAC	NO	71
M1-40.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

M40 inductive proximity sensor for alternating current, 2-wire, unshielded type

P1-40

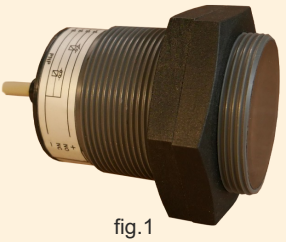


fig.1

Operating principle

The presented inductive proximity sensor M40 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

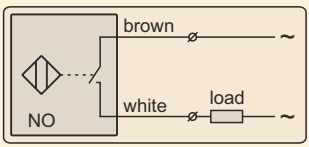
Operating distance, Sn	24.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	M40x1.5, L=55 mm
Housing - plastic	PVC

Features:
No protection of the output from overcurrent and short circuit.

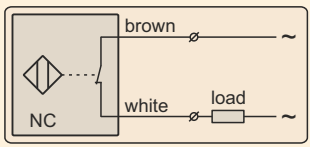
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P1-40.71.U1	90...240 VAC	NO	71
P1-40.72.U1	90...240 VAC	NC	72
P1-40.71.U2	40...100 VAC	NO	71
P1-40.72.U2	40...100 VAC	NC	72
P1-40.71.U3	20...50 VAC	NO	71
P1-40.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

P3-40 inductive proximity sensor for alternating current, 2-wire, unshielded type

P3-40

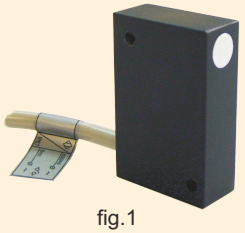


fig.1

Operating principle

The presented inductive proximity sensor P3-40 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

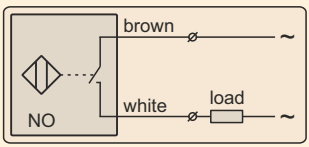
Operating distance, Sn	4.0 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	26x12x40 mm
Housing - plastic	PVC

Features:
No protection of the output from overcurrent and short circuit.

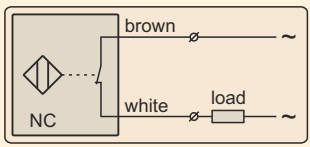
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P3-40.71.U1	90...240 VAC	NO	71
P3-40.72.U1	90...240 VAC	NC	72
P3-40.71.U2	40...100 VAC	NO	71
P3-40.72.U2	40...100 VAC	NC	72
P3-40.71.U3	20...50 VAC	NO	71
P3-40.72.U3	20...50 VAC	NC	72

Schemes of connection



Scheme 71



Scheme 72

P3-60 inductive proximity sensor for alternating current, 2-wire, unshielded type

P3-60

fig.1

Operating principle

The presented inductive proximity sensor P3-60 serves to switch 2-wire alternating current circuits. Its output is switched when passing metal objects in front of its active part. The inductive proximity sensor is resistant to moisture and dust. It has a long service life thanks to the non-contact switching of the electrical circuit in which it is connected.

Technical parameters

Operating distance, Sn	12.5 mm
Hysteresis, *h*	4...15%
Supply voltage, *Us*	90…240 Vac / 40...60 Hz (U1) 40…100 Vac / 40...60 Hz (U2) 20 … 50 Vac / 40...60 Hz (U3)
Residual voltage, *Ures*	4.4 Vac
Load current (max), *Iout*	10...300 mA
Current consumption, *Is*	1.5 mA
Switching frequency (max), *fo*	20 Hz
Operating temperature range, *Tamb*	-25°…+70° C
Degree of protection of the sensors	IP67 (IEC144)
Output element	Thyristor
Light output indicator	LED
Joining - cable	2x0.5 mm^2, L=2 m, PVC
Overall dimensions	60x30x15 mm
Housing - plastic	PA6 (polyamide)

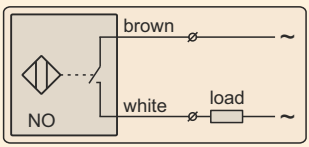
Features:

No protection of the output from overcurrent and short circuit.

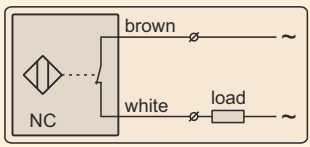
Type parameters

Type	Supply voltage	Output function	Scheme of connection
P3-60.71.U1	90...240 VAC	NO	71
P3-60.72.U1	90...240 VAC	NC	72
P3-60.71.U2	40...100 VAC	NO	71
P3-60.72.U2	40...100 VAC	NC	72
P3-60.71.U3	20...50 VAC	NO	71
P3-60.72.U3	20...50 VAC	NC	72

Schemes of connection

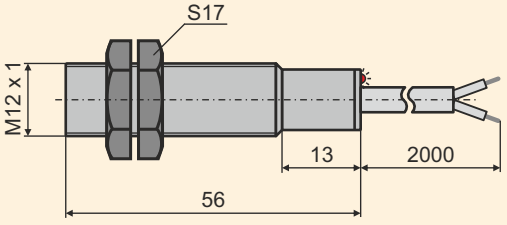


Scheme 71

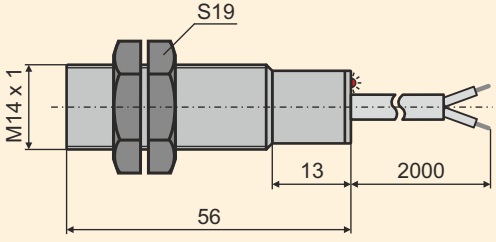


Scheme 72

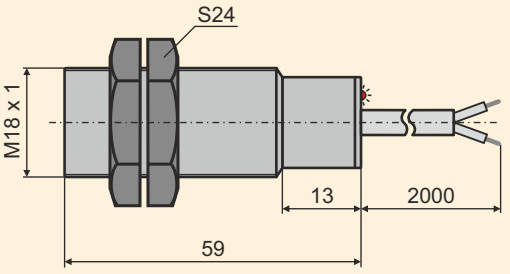
M12



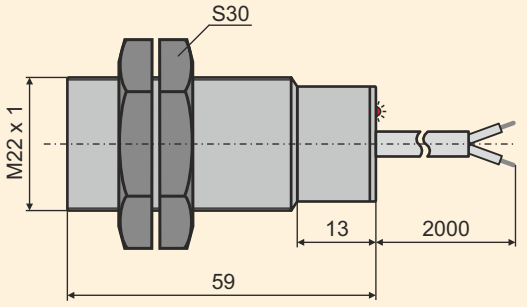
M14



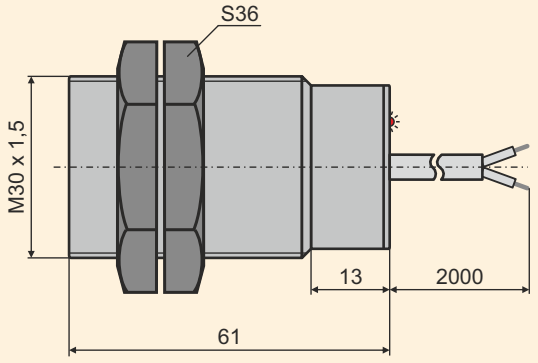
M18



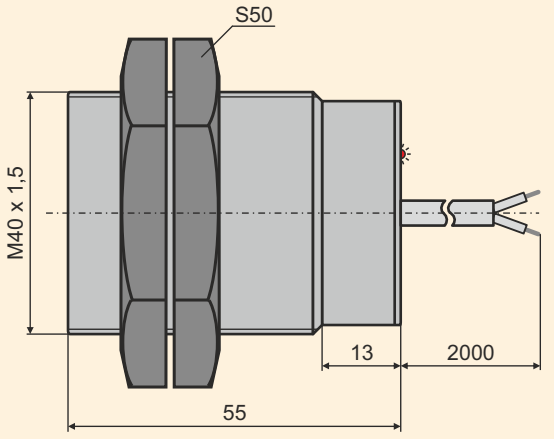
M22



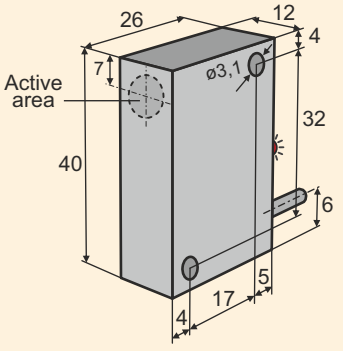
M30



M40



P3-40



P3-60