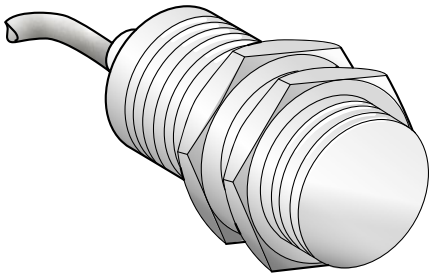


Inductive proximity sensor for rotation monitoring

M30



XSAV11373
XSAV12373

XSAV1562514
XSAV1562515

XSAV11801
XSAV12801
XSAV01801
XSAV02801



http://qr.tesensors.com/XS002

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DANGER

WARNING

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before servicing equipment.
- The power voltage must not exceed the rated range.

Failure to follow these instructions will result in death or serious injury.

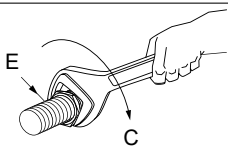
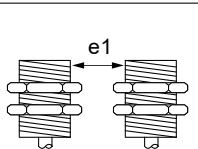
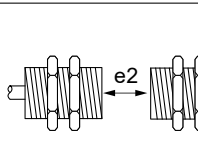
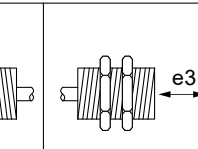
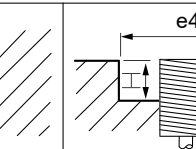
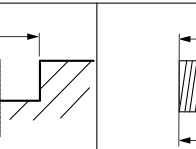
INCOMPATIBLE SYSTEM VOLTAGE

- Do not apply 24/240 V AC to DC powered sensors.
- Check the compatibility between the supply voltage, the load and the selected device before connecting the supply.
- Connect in series a 0.4 A "quick-blow" fuse for AC powered sensors (24 ≤ Ue ≤ 240 Vac).

Failure to follow these instructions can result in death, serious injury, or equipment damage.

DC sensors: 12 ≤ Ue ≤ 24 Vdc protected against reverse polarity and short-circuit
AC/DC sensors: 24 ≤ Ue ≤ 240 Vac NOT protected against short-circuit

Mounting and tightening torques

									
	E	C	e1	e2	e3	e4	H	L1	L2
mm	36	≤ 40 Nm	≥ 20	≥ 120	e ≥ 30	e4 > 30	H ≥ 0	81	66
inch	1.42	≤ 354 lb-in	≥ 0.79	≥ 4.72	e ≥ 1.18	e4 > 1.18	H ≥ 0	3.19	2.59

Wiring diagrams

XSAV11373
XSAV12373

XSAV01801
XSAV02801
XSAV11801
XSAV12801
XSAV1562514
XSAV1562515

BU: blue
BN: brown
BK: black

Response time relationships / Target number

Pot

N x 1 => Tr/1

N x 4 => Tr/4

Response time

Low speed version: set at 6 impulses / min. : tr = 10 s
set at 150 impulses / min. : tr = 0.4 s

High speed version: set at 120 impulses / min. : tr = 0.5 s
set at 3000 impulses / min. : tr = 0.02 s

Minimum time of target presence (standard target)

$$t = \frac{L \text{ (m)}}{V \text{ (m/s)}}$$

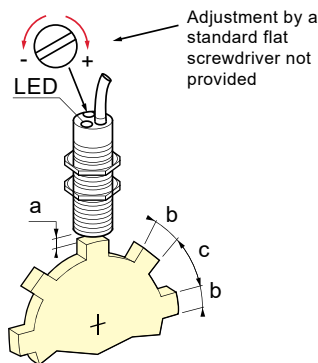
XSAV11...: t ≥ 3.3 ms
XSAV12...: t ≥ 0.42 ms

Mounting, wiring and maintenance precautions

NOTICE
REDUCTION OF SERVICE LIFE
Do not pull on the sensor cable.
Failure to follow these instructions can result in equipment damage.

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Setting

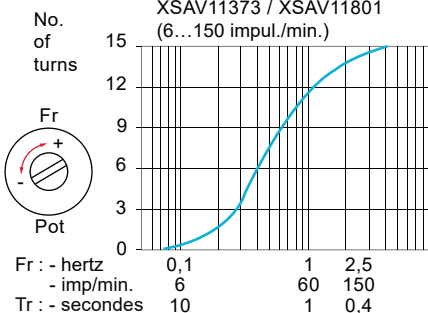


Adjustment by a standard flat screwdriver not provided

Potentiometer adjustment (no. of turns) / frequency setting (response time)

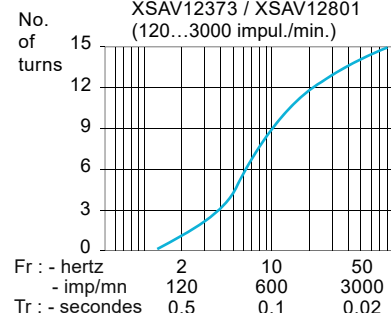
Low speed versions

XSAV11373 / XSAV11801
(6...150 impul./min.)



High speed versions

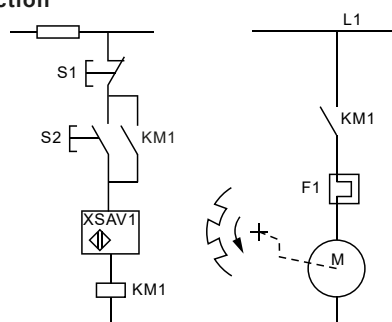
XSAV12373 / XSAV12801
(120...3000 impul./min.)



	a	b	c
mm	4 - 6	30 x 30	60
in.	0.16 - 0.24	1.18 x 1.18	2.36

Wiring example

Underspeed detection



Operation with supply disconnection and stopping in the event of an overload.



CAUTION

UNINTENDED EQUIPMENT OPERATION

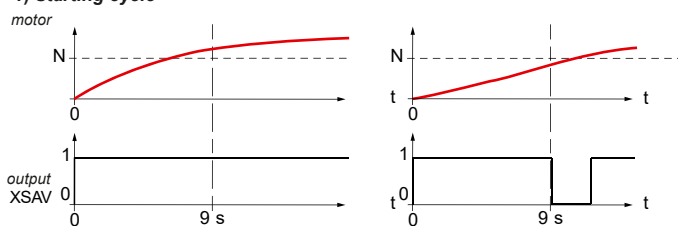
Apply circuit protection to all outputs.

Failure to follow these instructions can result in injury or equipment damage.

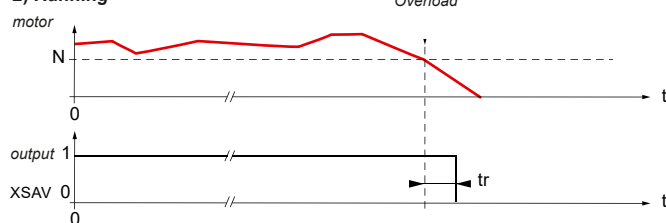
Curves

Response time charts

1) Starting cycle



2) Running



Characteristics

	XSAV11373 XSAV12373	XSAV01801 XSAV11801 XSAV02801 XSAV12801	XSAV1562514 XSAV1562515
Detector type	DC PNP 3 wires	AC/DC (1) 2 wires	AC/DC (1) 2 wires
Nominal voltage	12...48 V	24...240 V	110...240 V
Voltage limits	10...58 V	20...264 V	94...264 V
Switching capacity	0...200 mA	5...200 mA DC 5...350 mA AC	5...200 mA DC 5...350 mA AC
Overload and short circuit protection	Yes	No	No
Drop voltage	≤ 1.8 V	≤ 5.7 V	≤ 5.7 V
Residual current	-	≤ 1.5 mA	≤ 1.5 mA
Current consumption, no load	≤ 15 mA	-	-
Temperature range	-25...+70°C	-40...+70°C	

(1) AC/DC sensors: These sensors are not protected against overload or short-circuit and therefore, Connect a 0.4 A "quick-blow" fuse in series with the load.



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