

# DOLAM

PRZEDSIĘBIORSTWO PRODUKCYJNE  
 PODZESPOŁÓW ELEKTRONICZNYCH  
**DOLAM S.A.**

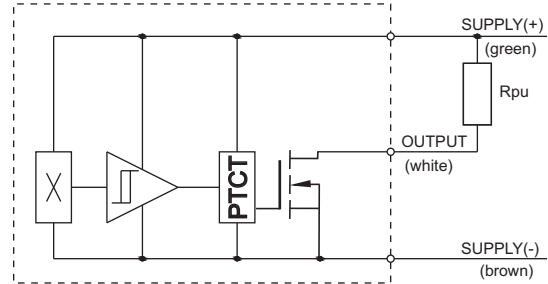
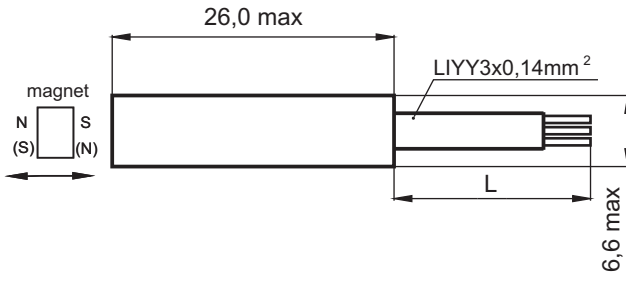
50-425 Wrocław, ul. Krakowska 64, Poland  
 tel. (+48) 71/342-65-54, fax (+48) 71/342-58-59  
 e-mail: sales@dolam.pl  
 www.dolam.pl

## Hall sensor LHS01/5-24

RoHS compliant product

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications.

In case doubts please contact the producer



L – Length of wires depends on customer's requirement

all dimensions in mm

DATA SCAN		Unit	<b>LHS01/5-24</b>
Contact form			open drain (NPN)
Function			latching switch
Operating voltage range	min	V <sub>DC</sub>	4,5
	max		24
Max current consumption	max	mA	6
Output saturation voltage	max	mV	500
Output leakage current	max	A	10
Output current	max	mA	25
Operating frequency	max	kHz	100
Operate point (B <sub>OP</sub> )	max	mT	6,0 (south)
Release point (B <sub>RP</sub> )	min	mT	6,0 (north)
Hysteresis (B <sub>hys</sub> = B <sub>OP</sub> - B <sub>RP</sub> )	typ	mT	4,5
Environment category acc. to IEC 68-2-1÷3			40/85/21
Housing			Plastic case

\* - sensor is protected against reverse polarity connection

\*\* - output current is limited internally (30-60mA)

Typical applications:

Automatic control systems, garage doors, elevators, washing machines, refrigerators.



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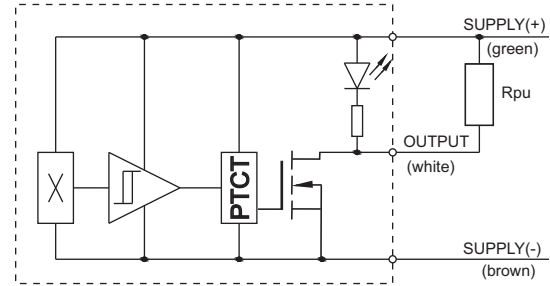
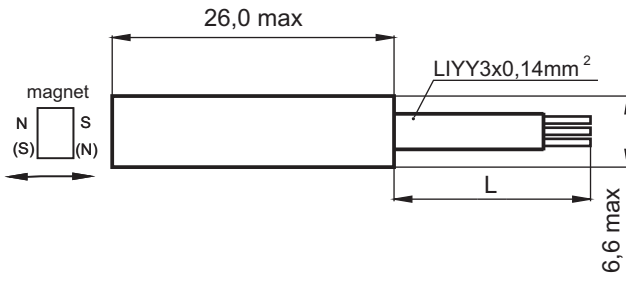
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## Hall sensor LHS01

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all dimensions in mm

DATA SCAN	Unit	LHS01/6	LHS01/12	LHS01/18
Contact form	open drain (NPN)			
Function	latching switch (indicated by LED)			
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	24
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	12		
Output saturation voltage	max	mV 500		
Output leakage current	max	A 10		
Output current	max	mA 20		
Operating frequency	max	kHz 100		
Operate point ( $B_{OP}$ )	max	mT 6,0 (south)		
Release point ( $B_{RP}$ )	min	mT 6,0 (north)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	mT 4,5		
Environment category acc. to IEC 68-2-1÷3	40/85/21			
Housing	Plastic case			

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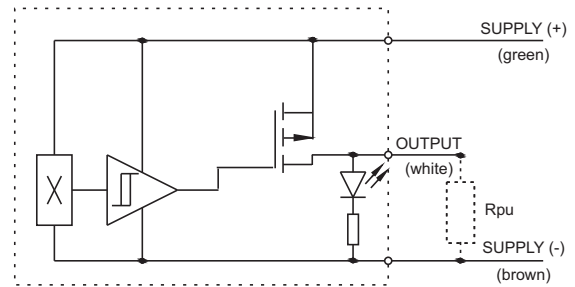
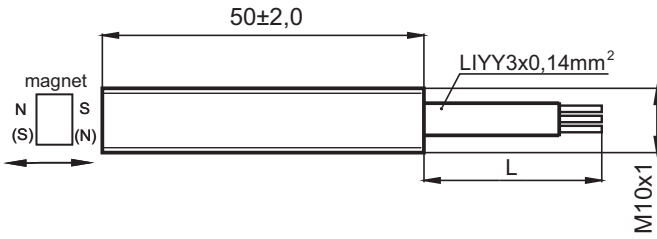
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## Hall sensor LHS02

RoHS compliant product

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications.

In case doubts please contact the producer



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all dimensions in mm

DATA SCAN	Unit	LHS02/6	LHS02/12	LHS02/18
Contact form	open drain (PNP)			
Function	latching switch (indicated by LED)			
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	20
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	20		
Output saturation voltage	max	600		
Output leakage current	max	10		
Output current	max	2		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south)		
Release point ( $B_{RP}$ )	min	6,0 (north)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	4,5		
Environment category acc. to IEC 68-2-1÷3	40/85/21			
Housing	Plastic case			

Typical applications:

Automatic control systems, garage doors, elevators, washing machines, refrigerators.



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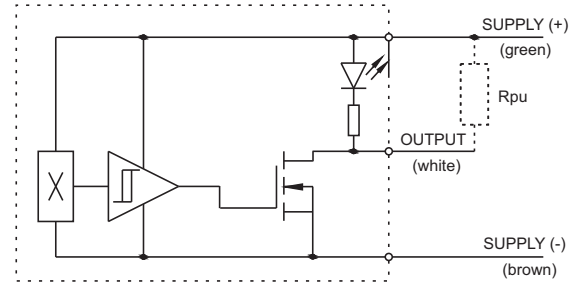
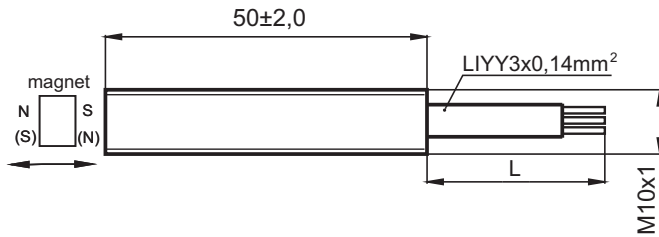
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## Hall sensor LHS03

RoHS compliant product

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all dimensions in mm

DATA SCAN	Unit	LHS03/6	LHS03/12	LHS03/18
Contact form	open drain (NPN)			
Function	latching switch (indicated by LED)			
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	20
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	20		
Output saturation voltage	max	600		
Output leakage current	max	10		
Output current	max	2		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south)		
Release point ( $B_{RP}$ )	min	6,0 (north)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	4,5		
Environment category acc. to IEC 68-2-1÷3	40/85/21			
Housing	Plastic case			

Typical applications:

Automatic control systems, garage doors, elevators, washing machines, refrigerators.

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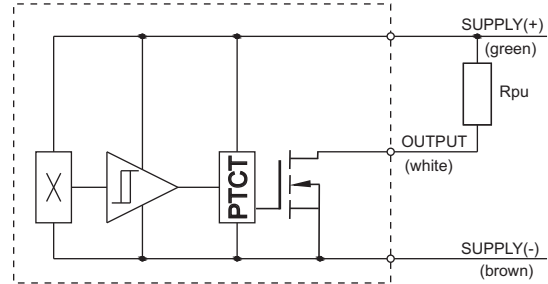
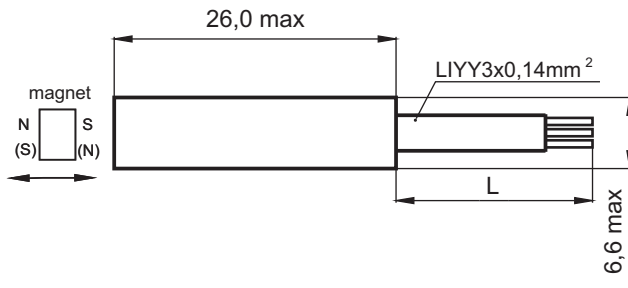
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## Hall sensor OHS01/5-24

RoHS compliant product

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all dimensions in mm

DATA SCAN		Unit	OHS01/5-24
Contact form			open drain (NPN)
Function			omnipolar switch
Operating voltage range	min	V <sub>DC</sub>	4,5
	max		24
Max current consumption	max	mA	6
Output saturation voltage	max	mV	500
Output leakage current	max	A	10
Output current	max	mA	25
Operating frequency	max	kHz	100
Operate point (B <sub>OP</sub> )	max	mT	6,0 (south or north)
Release point (B <sub>RP</sub> )	min	mT	0,5 (south or north)
Hysteresis (B <sub>hys</sub> = B <sub>OP</sub> - B <sub>RP</sub> )	typ	mT	1,8
Environment category acc. to IEC 68-2-1÷3			40/85/21
Housing			Plastic case

\* - sensor is protected against reverse polarity connection

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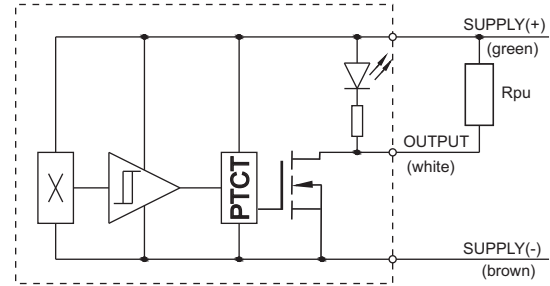
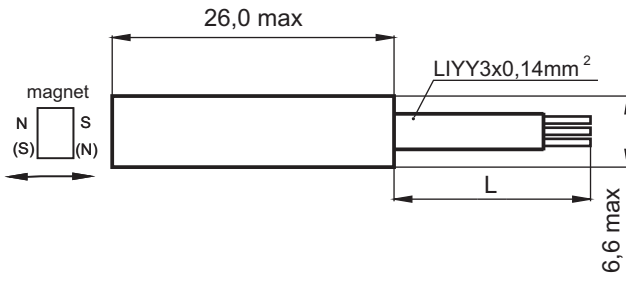
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## Hall sensor OHS01

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all dimensions in mm

DATA SCAN	Unit	OHS01/6	OHS01/12	OHS01/18
Contact form		open drain (NPN)		
Function		Omnipolar switch (indicated by LED)		
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	24
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	10		
Output saturation voltage	max	500		
Output leakage current	max	10		
Output current	max	20		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south or north)		
Release point ( $B_{RP}$ )	min	0,5 (south or north)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	1,8		
Environment category acc. to IEC 68-2-1÷3		40/85/21		
Housing		Plastic case		

\* - sensor is protected against reverse polarity connection

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Typical applications:

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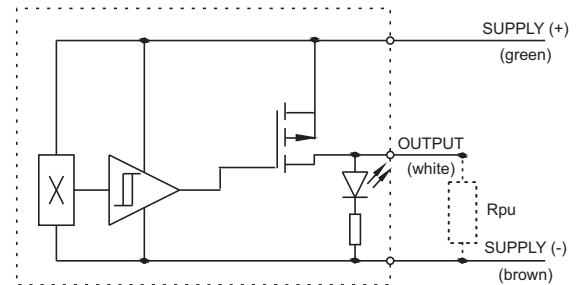
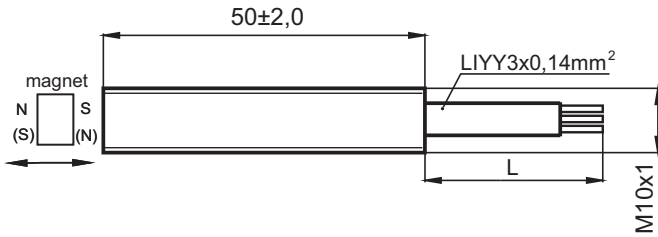
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## Hall sensor OHS02

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all dimensions in mm

DATA SCAN	Unit	OHS02/6	OHS02/12	OHS02/18
Contact form		open drain (PNP)		
Function		omnipolar switch (indicated by LED)		
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	20
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	20		
Output saturation voltage	max	600		
Output leakage current	max	10		
Output current	max	2		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south or north)		
Release point ( $B_{RP}$ )	min	0,5 (south or north)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	1,8		
Environment category acc. to IEC 68-2-1÷3		40/85/21		
Housing		Plastic case		

Typical applications:

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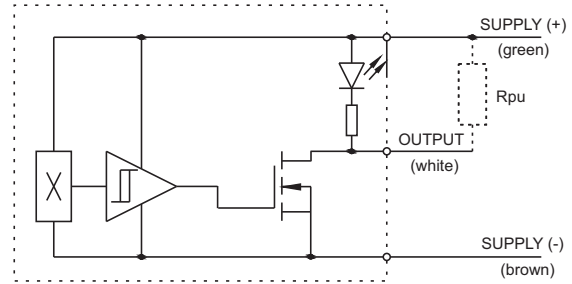
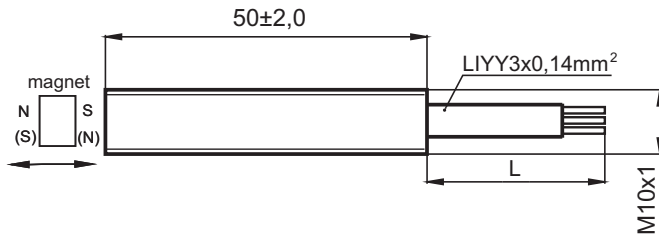
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## Hall sensor OHS03

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all dimensions in mm

DATA SCAN	Unit	OHS03/6	OHS03/12	OHS03/18
Contact form	open drain (NPN)			
Function	omnipolar switch (indicated by LED)			
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	20
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	20		
Output saturation voltage	max	600		
Output leakage current	max	10		
Output current	max	2		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south or north)		
Release point ( $B_{RP}$ )	min	0,5 (south or north)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	1,8		
Environment category acc. to IEC 68-2-1÷3	40/85/21			
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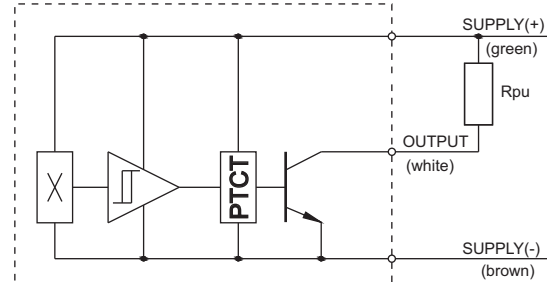
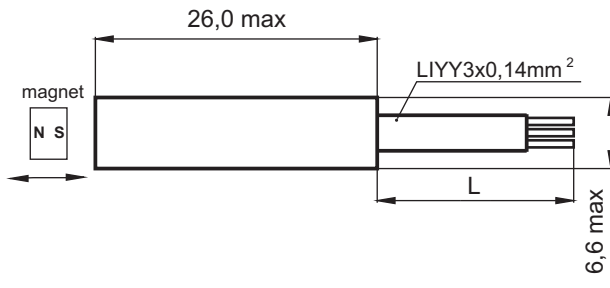
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DATA SCAN		Unit	<b>UHS01/5-24</b>
Contact form			open collector (NPN)
Function			unipolar switch
Operating voltage range	min	V <sub>DC</sub>	4,5
	max		24
Max current consumption	max	mA	6
Output saturation voltage	max	mV	500
Output leakage current	max	A	10
Output current	max	mA	25
Operating frequency	max	kHz	100
Operate point (B <sub>OP</sub> )	max	mT	6,0 (south)
Release point (B <sub>RP</sub> )	min	mT	0,5 (south)
Hysteresis (B <sub>hys</sub> = B <sub>OP</sub> - B <sub>RP</sub> )	typ	mT	1,0
Environment category acc. to IEC 68-2-1÷3			40/85/21
Housing			Plastic case

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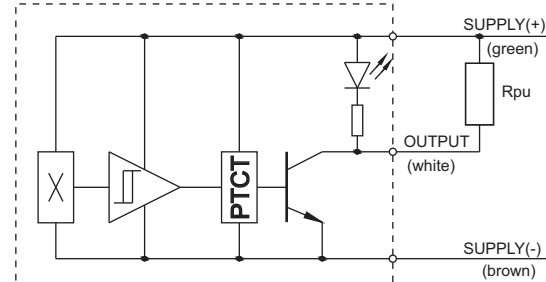
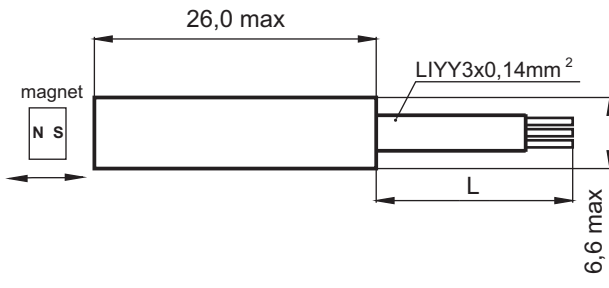
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## Hall sensor UHS01

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all dimensions in mm

DATA SCAN	Unit	UHS01/6	UHS01/12	UHS01/18
Contact form	open collector (NPN)			
Function	omnipolar switch (indicated by LED)			
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	24
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	12		
Output saturation voltage	max	500		
Output leakage current	max	10		
Output current	max	20		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south)		
Release point ( $B_{RP}$ )	min	0,5 (south)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	1,0		
Environment category acc. to IEC 68-2-1	3	40/85/21		
Housing	Plastic case			

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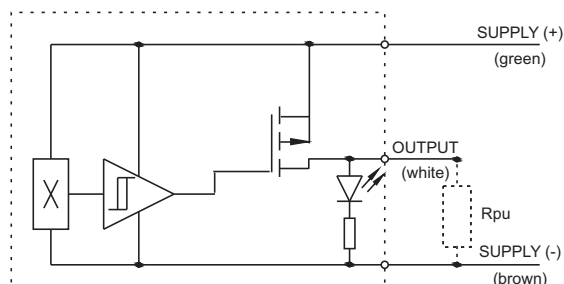
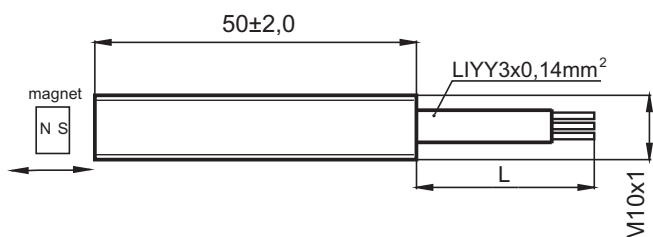
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## Hall sensor UHS02

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all dimensions in mm

DATA SCAN	Unit	UHS02/6	UHS02/12	UHS02/18
Contact form		open drain (PNP)		
Function		unipolar switch (indicated by LED)		
Operating voltage range	min	4,5	9	15
	typ	6	12	18
	max	9	15	20
Max current consumption	$B < B_{RP}$	6		
	$B > B_{OP}$	20		
Output saturation voltage	max	600		
Output leakage current	max	10		
Output current	max	2		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south)		
Release point ( $B_{RP}$ )	min	0,5 (south)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	1,0		
Environment category acc. to IEC 68-2-1	3	40/85/21		
Housing		Plastic case		

Typical applications:

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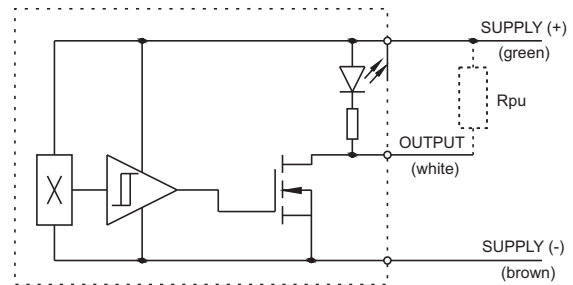
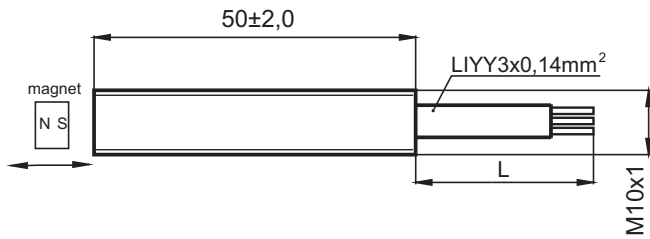
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Function	unipolar switch (indicated by LED)			
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	max	9	15	20
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	$B > B_{OP}$	20		
Output saturation voltage	max	600		
Output leakage current	max	10		
Output current	max	2		
Operating frequency	max	100		
Operate point ( $B_{OP}$ )	max	6,0 (south)		
Release point ( $B_{RP}$ )	min	0,5 (south)		
Hysteresis ( $B_{hys} = B_{OP} - B_{RP}$ )	typ	1,0		
Environment category acc. to IEC 68-2-1	3	40/85/21		
Housing	Plastic case			

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