



Magnetic proximity sensors Rectangular housing, MQ10

MQ10-60APS-KQDS01



Model Name > [MQ10-60APS-KQDS01](#)
Part No. > [1045638](#)



At a glance

- Long sensing distance in a small, compact rectangular plastic housing with an IP 67 enclosure rating
- Detection of permanent magnets through non-ferromagnetic materials such as stainless steel, aluminum, plastic, or wood
- Solves high-temperature applications by installing the temperature-resistant magnet in the high-temperature area and the sensor behind an insulated area
- Non-contact operation that is resistant to dust, dirt, shock and vibration
- Precise switching point and hysteresis
- Sensing distance up to 60 mm
- High switching frequency
- Short-circuit, reverse polarity protection and power-up pulse suppression

Your benefits

- Non-contact operation eliminates interference from dirt, dust, shock and vibrations, reducing maintenance costs
- Long sensing distance with reliable switching reduces miscounts and increases machine throughput
- Easy to install, low-cost sensor solution saves installation time and costs
- Compact plastic housing saves machine space

Features

Design:	Rectangular
Sensing range Sn:	60 mm ¹⁾
Assured sensing range Sa:	48.6 mm
Magnetic sensitivity:	1 mT
Switching frequency:	5,000 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ²⁾
Magnetic alignment:	Axial
Connection type:	Cable with connector M12, 3-pin

¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0) ²⁾ According to EN 60529

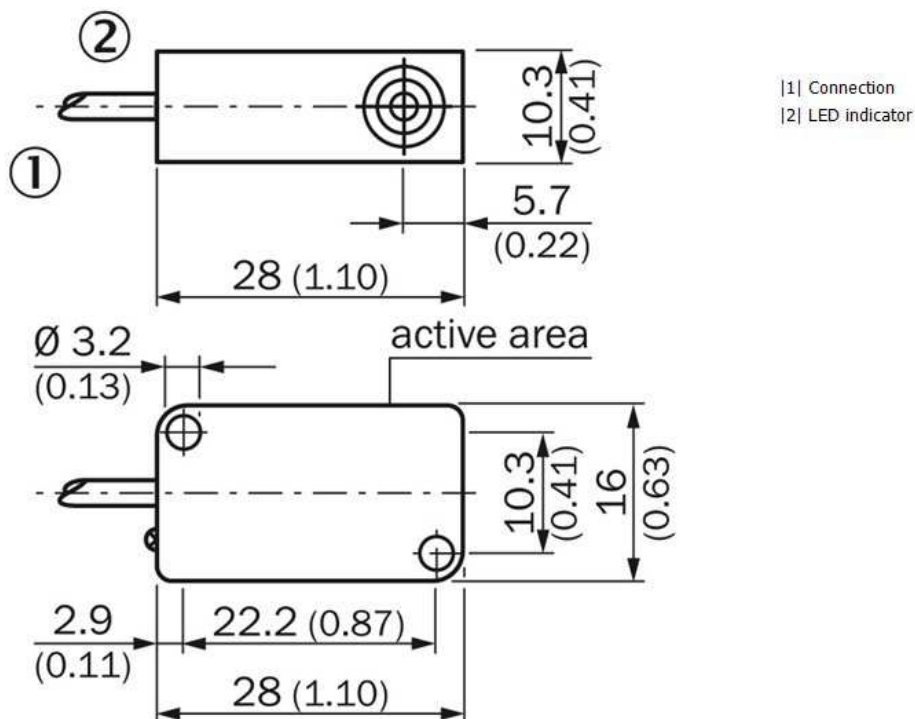
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 10 % ¹⁾

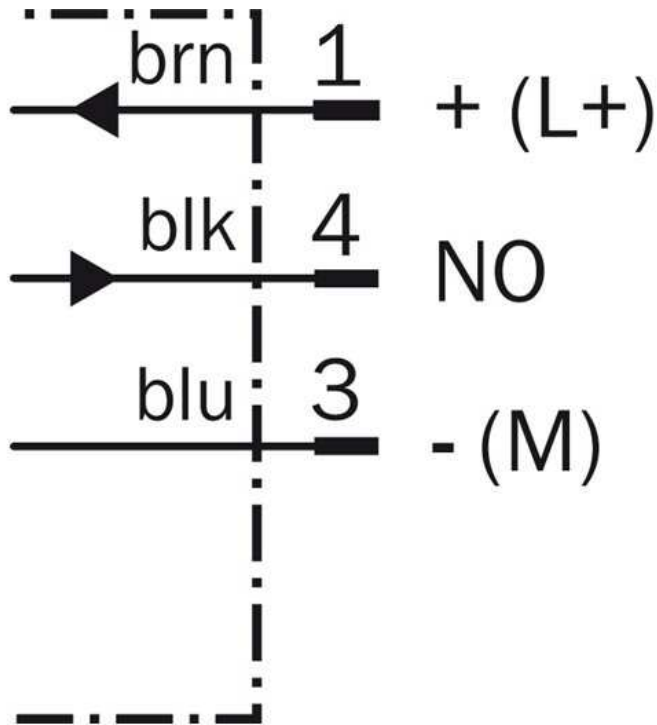
Power consumption:	$\leq 5 \text{ mA}$ ²⁾
Voltage drop:	$\leq 1.5 \text{ V}$ ³⁾
Output current I_a :	$\leq 300 \text{ mA}$
Hysteresis:	1 % ... 10 %
Repeatability:	$\leq 1 \%$ ⁴⁾
Temperature drift (of Sr):	$\pm 10 \%$
EMC:	According to EN 60947-5-2
Reverse polarity protection:	✓
Short-circuit protection ⁵⁾ :	✓
Housing material:	Plastic
Power-up pulse protection:	✓
Time delay before availability:	$\leq 2 \text{ ms}$
Ambient operating temperature:	-25 °C ... 75 °C
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Housing cap material:	Polyamid
Wire-break protection:	0

1) Of V_S ²⁾ Without load ³⁾ At $I_a \text{ max}$ ⁴⁾ Von Sr (VS und Ta constant) ⁵⁾ Pulsed

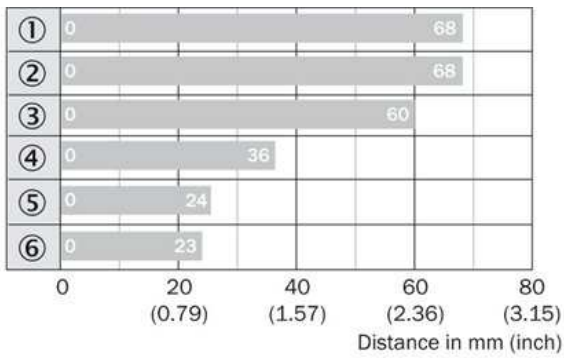
Dimensional drawing



Connection diagram



Operating distance



■ Max. sensing range S_n, flush or non-flush installation, non-magnetizable material

Magnet type	Part no.
① MAG-3315-B (M 5.1)	7902086
② MAG-3015-B (M 5.0)	7901786
③ MAG-3010-B (M 4.0)	7901785
④ MAG-2006-B (M 3.0)	7901784
⑤ MAG-0625-A (M 2.0)	7901783
⑥ MAG-1003-S (M 1.0)	7901782

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