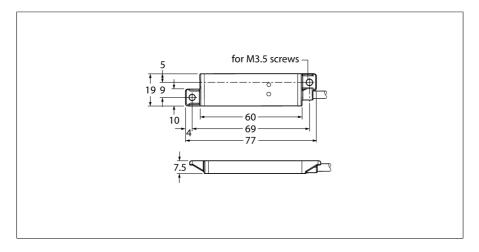


## Magnetic Field Sensor With Switching Output Q7MB W/15





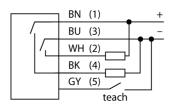
Q7MB W/15	
3072489	
1030 VDC	
yes/Cyclic	
yes	
≤ 0.5 s	
< 20 ms	
	3072489  1030 VDC  yes/Cyclic  yes  ≤ 0.5 s

Design	Rectangular, Q7M	
Housing material	Aluminium, AL	
Electrical connection	Cable, 4.5 m, PVC	
Number of cores	5	
Core cross-section	0.5 mm²	
Ambient temperature	-40+70 °C	
Protection class	IP68	
	IP69K	

Power-on indication	LED, Green
Switching state	LED, Yellow

- Compact, robust design in a flat aluminum housing
- Protection classes IP67/IP69K
- Cable connection
- Operating voltage 10...30 VDC
- Switching outputs, bipolar (PNP/NPN)
- Measuring range adjustable via teach-in

## Wiring Diagram



## **Functional principle**

This sensor features three magneto-resistance transducers vertically to each other. Every transducer detects changes in the magnetic field along its axis. Maximum sensor sensitivity is achieved by the use of three measuring elements. A ferrous object changes the local magnetic field (surrounding magnetic field) which surrounds the object. The strength of this change in the magnetic field depends on the actual object (size, shape, orientation) as well as on the surrounding magnetic field (strength and orientation). The sensor measures the surrounding magnetic field by simple programming. If a ferrous object changes this magnetic field, it is detected by the sensor.

Tests/approvals