

# BI20R-Q14-AN6X2

## Inductive Sensor – Ring Sensor

### Technical data

Type	BI20R-Q14-AN6X2
Ident. no.	1406320
Fly-by speed	1...28 m/s
pulse stop	≥ 5 ms
Pulse duration at the output	≥ 100 ms ± 20 %
Ambient temperature	-25...+70 °C
Switching frequency	0.008 kHz
Cable quality	Ø 5.2 mm, LifYY-11Y, PUR
Core cross-section	3 x 0.34 mm <sup>2</sup>
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C

### Features

- Static output behaviour
- Output pulse length min. 100 ms

### Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. Inductive ring sensors generate this field through an LC resonant circuit. The target acts as the coil core.