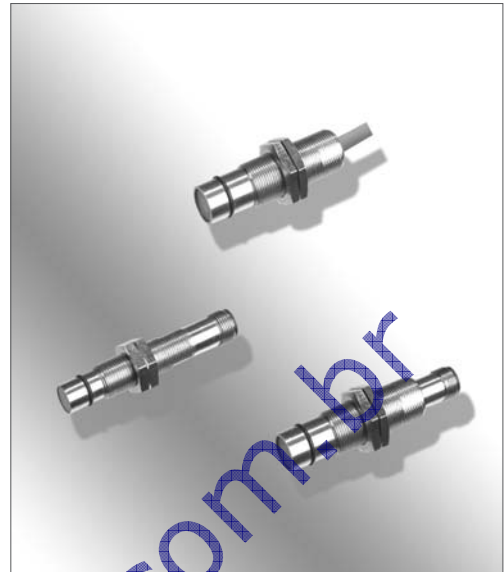


Features:

- High Pressure to 500bar
- Applied in Hydraulic Pressure Drive Devices & Many Similar Devices
- Reverse Polarity Protection
- Surge Protection
- Overload Current Protection
- Long Life and High Reliability
- LED Indicator
- IP68 (IEC)



! Please read "caution for your safety" in operation manual before using

Type DC 3wire

| Shape | Mouting | SN | Output | Model (cable 2m) | Model (connector M12) | |
|-------|---------|-----|--------|------------------|-----------------------|-----------------|
| M12 | F | 2mm | NPN | NO | LR12BF02DNOB | LR12BF02DNOB-E2 |
| | | | | NC | LR12BF02DNCB | LR12BF02DNCB-E2 |
| | | | | NO+NC | ---- | ---- |
| | | | PNP | NO | LR12BF02DPOB | LR12BF02DPOB-E2 |
| | | | | NC | LR12BF02DPCB | LR12BF02DPCB-E2 |
| | | | | NO+NC | ---- | ---- |
| M16 | NF | 3mm | NPN | NO | LR16BF03DNOB | LR16BF03DNOB-E2 |
| | | | | NC | LR16BF03DNCB | LR16BF03DNCB-E2 |
| | | | | NO+NC | ---- | ---- |
| | | | PNP | NO | LR16BF03DPOB | LR16BF03DPOB-E2 |
| | | | | NC | LR16BF03DPCB | LR16BF03DPCB-E2 |
| | | | | NO+NC | ---- | ---- |

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Specification (DC 3 Wires)

| Housing size | M12*1*62 | | M12*1*62 | | M16*1*46 | |
|---------------------|---|--------------|----------------------|-----------------|----------------------|--------------|
| Dimensions | LR12BF02D□□B | | LR12BF02D□□B-E2 | | LR16BF03D□□B | |
| | | | | | | |
| Type | LR12BF02DNOB | LR12BF02DPOB | LR12BF02DNOB-E2 | LR12BF02DPOB-E2 | LR16BF03DNOB | LR16BF03DPOB |
| | LR12BF02DNCB | LR12BF02DPCB | LR12BF02DNCB-E2 | LR12BF02DPCB-E2 | LR16BF03DNCB | LR16BF03DPCB |
| Item | | | | | | |
| SN | 2mm | | 2mm | | 3mm | |
| Mounting | F | | F | | F | |
| Output | NPN/PNP NO/NC | | NPN/PNP NO/NC | | NPN/PNP NO/NC | |
| Power supply | 10...30VDC | | 10...30VDC | | 10...30VDC | |
| Standard object | Fe 12*12*1t | | Fe 12*12*1t | | Fe 16*16*1t | |
| Switch-point drift | ≤±10% | | ≤±10% | | ≤±10% | |
| Hysteresis | 1...15% | | 1...15% | | 1...15% | |
| Repeat accuracy | ≤3% | | ≤3% | | ≤3% | |
| Load current | ≤200mA | | ≤200mA | | ≤200mA | |
| Residual voltage | ≤2.5VDC | | ≤2.5VDC | | ≤2.5VDC | |
| Consumption | ≤15mA | | ≤15mA | | ≤15mA | |
| Protection circuit | Reverse polarity protection Overloading Protection, Surge protection | | | | | |
| Pressure | 500bar | | 500bar | | 500bar | |
| Ambient temp | -25...70℃ | | -25...70℃ | | -25...70℃ | |
| Ambient RH | 35...95%RH | | 35...95%RH | | 35...95%RH | |
| Frequency | 1500Hz | | 1500Hz | | 1000Hz | |
| Dielectric strength | 1000V/AC 50/60Hz 60s | | 1000V/AC 50/60Hz 60s | | 1000V/AC 50/60Hz 60s | |
| Insulate resistance | ≥50MΩ(500VDC) | | ≥50MΩ(500VDC) | | ≥50MΩ(500VDC) | |
| Vibration | 1.5mm amplitude at 10 to 50Hz in each of x, y and z direction for two hours | | | | | |
| Protection | IP68 | | IP68 | | IP68 | |
| Housing material | Stainless Steel | | Stainless Steel | | Stainless Steel | |
| Connection | Cable 2m | | Connector M12 | | Cable 2m | |
| Approval | | | | | | |

SUMMARY

Inductive sensor

Capacitive sensor

Photoelectric sensor

Magnetic sensor

Mark sensor

Fiber Optic

ACCESSORY

Specification (DC 3 Wires)

| | | | |
|---------------------|---|-----------------|--|
| Housing size | M16*1*46 | | |
| Dimensions | LR16BF03D□□B-E2 | | |
| | | | |
| Type | LR16BF03DNOB-E2 | LR16BF03DPOB-E2 | |
| Item | LR16BF03DNCB-E2 | LR16BF03DPCB-E2 | |
| SN | 3mm | | |
| Mounting | F | | |
| Output | NPN/PNP NO/NC | | |
| Power supply | 10...30VDC | | |
| Standard object | Fe 16*16*1t | | |
| Switch-point drift | ≤ ±10% | | |
| Hysteresis | 1...15% | | |
| Repeat accuracy | ≤ 3% | | |
| Load current | ≤ 200mA | | |
| Residual voltage | ≤ 2.5VDC | | |
| Consumption | ≤ 15mA | | |
| Protection circuit | Reverse polarity protection Overloading Protection, Surge protection | | |
| Pressure | 500bar | | |
| Ambient temp | -25...70°C | | |
| Ambient RH | 35...95%RH | | |
| Frequency | 1000Hz | | |
| Dielectric strength | 1000V/AC 50/60Hz 60s | | |
| Insulate resistance | ≥ 50MΩ(500VDC) | | |
| Vibration | 1.5mm amplitude at 10 to 50Hz in each of x, y and z direction for two hours | | |
| Protection | IP68 | | |
| Housing material | Stainless Steel | | |
| Connection | Connector M12 | | |
| Approval | | | |

SUMMARY

Inductive sensor

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