



# Threaded housing

## 3-wire DC PNP

Optical setting aid (2 LEDs) for IGS208 / 209, IFS208 / 209, and IIS206 / 207

| Housing                                                                        | Dimensions<br>[mm] | Sensing<br>range<br>[mm] | Material     | U <sub>b</sub><br>[V] | Protection | f<br>[Hz] | I <sub>load</sub><br>[mA] | U <sub>ab</sub><br>[V] | I <sub>0</sub><br>[mA] | Drawing<br>no. | Order<br>no. |
|--------------------------------------------------------------------------------|--------------------|--------------------------|--------------|-----------------------|------------|-----------|---------------------------|------------------------|------------------------|----------------|--------------|
| M8 connector · Output  · Connector groups 1, 2, 41 · Wiring diagram no. 1      |                    |                          |              |                       |            |           |                           |                        |                        |                |              |
|                                                                                | M12 / L = 46       | 4 f                      | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 1              | IFS210       |
|                                                                                | M12 / L = 51       | 7 nf                     | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 2              | IFS211       |
|                                                                                | M18 / L = 46       | 8 f                      | brass        | 10...36               | IP 67      | 400       | 100                       | 2.5                    | 10                     | 3              | IGS210       |
|                                                                                | M18 / L = 52       | 12 nf                    | brass        | 10...36               | IP 67      | 400       | 100                       | 2.5                    | 10                     | 4              | IGS211       |
| M12 connector · Output  · Connector groups 7, 8, 10 · Wiring diagram no. 1     |                    |                          |              |                       |            |           |                           |                        |                        |                |              |
|                                                                                | M12 / L = 45       | 4 f                      | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 5              | IFS204       |
|                                                                                | M12 / L = 50       | 7 nf                     | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 6              | IFS205       |
|                                                                                | M12 / L = 70       | 4 f                      | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 7              | IFS212       |
|                                                                                | M12 / L = 70       | 7 nf                     | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 8              | IFS213       |
|                                                                                | M18 / L = 46       | 8 f                      | brass        | 10...36               | IP 67      | 400       | 100                       | 2.5                    | 10                     | 9              | IGS204       |
|                                                                                | M18 / L = 51       | 12 nf                    | brass        | 10...36               | IP 67      | 300       | 100                       | 2.5                    | 10                     | 10             | IGS205       |
|                                                                                | M18 / L = 70       | 8 f                      | brass        | 10...36               | IP 67      | 400       | 100                       | 2.5                    | 10                     | 11             | IGS212       |
|                                                                                | M18 / L = 70       | 12 nf                    | brass        | 10...36               | IP 67      | 300       | 100                       | 2.5                    | 10                     | 12             | IGS213       |
|                                                                                | M30 / L = 50       | 15 f                     | brass        | 10...36               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 13             | IIS204       |
|                                                                                | M30 / L = 50       | 22 nf                    | brass        | 10...36               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 14             | IIS205       |
|                                                                                | M30 / L = 70       | 15 f                     | V4A (316S12) | 10...36               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 15             | IIS210       |
|                                                                                | M30 / L = 70       | 22 nf                    | V4A (316S12) | 10...36               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 16             | IIS211       |
| M12 connector · Output  · Connector groups 7, 8 · Wiring diagram no. 2         |                    |                          |              |                       |            |           |                           |                        |                        |                |              |
|                                                                                | M12 / L = 45       | 4 f                      | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 5              | IFS206       |
|                                                                                | M12 / L = 50       | 7 nf                     | brass        | 10...36               | IP 67      | 700       | 100                       | 2.5                    | 10                     | 6              | IFS207       |
|                                                                                | M18 / L = 46       | 8 f                      | brass        | 10...36               | IP 67      | 400       | 100                       | 2.5                    | 10                     | 9              | IGS206       |
|                                                                                | M18 / L = 51       | 12 nf                    | brass        | 10...36               | IP 67      | 300       | 100                       | 2.5                    | 10                     | 10             | IGS207       |
|                                                                                | M30 / L = 50       | 15 f                     | brass        | 10...36               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 13             | IIS208       |
|                                                                                | M30 / L = 50       | 22 nf                    | brass        | 10...36               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 14             | IIS209       |
| M12 connector · Output  · Connector groups 6, 7, 8, 10 · Wiring diagram no. 64 |                    |                          |              |                       |            |           |                           |                        |                        |                |              |
|                                                                                | M12 / L = 70       | 4 f                      | brass        | 10...30               | IP 67      | 500       | 100                       | 2.8                    | 12                     | 7              | IFS208       |
|                                                                                | M12 / L = 70       | 7 nf                     | brass        | 10...30               | IP 67      | 500       | 100                       | 2.8                    | 12                     | 8              | IFS209       |
|                                                                                | M18 / L = 70       | 8 f                      | brass        | 10...30               | IP 67      | 400       | 100                       | 2.8                    | 12                     | 11             | IGS208       |
|                                                                                | M18 / L = 70       | 12 nf                    | brass        | 10...30               | IP 67      | 300       | 100                       | 2.8                    | 12                     | 12             | IGS209       |
|                                                                                | M30 / L = 70       | 15 f                     | brass        | 10...30               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 15             | IIS206       |
|                                                                                | M30 / L = 70       | 22 nf                    | brass        | 10...30               | IP 67      | 100       | 100                       | 2.5                    | 10                     | 16             | IIS207       |

Operating temperature +25...80 °C

You can find scale drawings from page 450

AC / DC  
2-wire



76 - 77

For oils and  
coolants



78 - 97

For electro-  
magnetic fields



98 - 101

For hygienic  
and wet areas



102 - 113

For hazardous  
areas



114 - 127

General  
information

Technical  
data

Inductive  
sensors

Capacitive  
sensors

Magnetic  
sensors, cylinder  
sensors

Safety  
technology

Valve sensors

Photoelectric  
sensors

Object  
recognition

Encoders

Position  
sensors, power  
supply

Connection  
technology

Accessories

Technical  
information  
and service