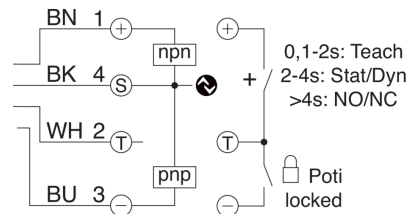
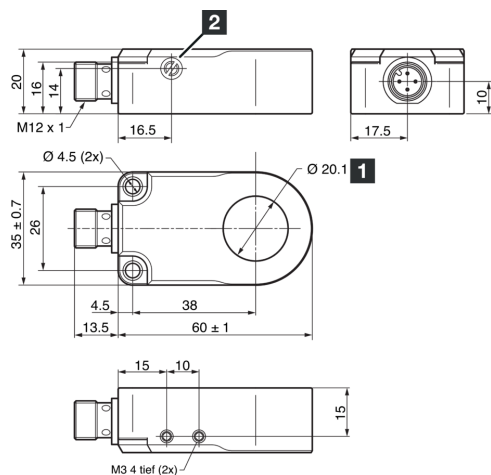




213790 IRSD-20P-G3-B4 Inductive ring sensor

- High resolution
- Short response time
- Sensitivity and pulse stretching adjustable
- Resistant to dirt
- Switchable between static and dynamic operating principle
- Metal connector
- High protection type
- Frequency switchable for reducing the installation distance
- Intelligent teach-in process
- Local and Remote can be set



1) Ring diameter

2) sensitivity

BK: black

BN: brown

BU: blue

WH: white

Function



Technical data (typ.)

+20°C, 24 V DC

Electrical features

Service voltage	10 ... 30 V DC
No-load current (max.)	30 mA
Insulation voltage endurance	500 V

Mechanical features

Internal diameter	20.1 mm
Housing material	Plastic (PA)
Material	POM (Ring)

Certifications, approvals

Protection class	III, operation on protective low voltage
Approvals	UL

General features

Operating principle	Dynamic/static switchable
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Output, input, interface

Switching output	Push-pull/PNP/NPN, 100 mA, NO/NC, switchable
Voltage drop (max.)	2 V
Interface	IO-Link
Pulse stretching	adjustable



213790

IRSD-20P-G3-B4

Inductive ring sensor

Technical data (typ.)		+20°C, 24 V DC
Detection range, measuring range, tolerance limits		
Resolution steel ball (high functional reliability)		1.7 mm (dynamic), 3.5 mm (static)
Resolution steel ball (smallest object size)		1 mm (dynamic), 2.5 mm (static)
Display, operation		
Sensitivity adjustment		IO-Link, Potentiometer
Time behavior		
Speed of parts (max.)		35 m/s
Speed of parts (min.)		0.1 m/s (dynamic)
Readiness delay (max.)		300 ms
Ambient conditions		
Shock/vibration load		30 g, 11 ms / 10 ... 55 Hz, 1.0 mm
Ambient temperature during operation		-25 ... +70 °C
Permissible relative humidity		< 95% (+25°C) / < 90% (+40°C), non-condensing (increased humidity affects the sensor nominal resolution)
Protection type		IP 67
Electrical connection		
Connection		Connector, M12, 4-pin, A-coded
Accessories		
Connection cable		VK ...
More information / accessories		https://www.di-soric.com/213790