

/// 28 series



The 28 series sensors are reliable, powerful photoelectric sensors that are predestined for many standard detection tasks in materials handling, packaging technology and machines for special applications. They offer large ranges and numerous technical highlights, such as the highly visible brightVision® light spot for simple alignment or the front- and plug-side M18 mounting option, at an absolutely convincing, economical price. Moreover, the fiber-reinforced, cubic plastic housing with rating and the IP 67 A²LS active suppression of extraneous light facilitate especially robust detection, even in rough industrial environments.



Throughbeam sensors

Solid, cubic throughbeam photoelectric sensor for standard detection tasks with transmitter and receiver.

L28

The throughbeam principle makes possible the reliable detection of even flat objects with a high function reserve and reduces the risk of a system standstill. Deactivation inputs enable testing of the sensor. In addition, optimized beam geometry and the highly visible brightVision® light spot simplify alignment.

Benefits:

- High function reserve
- Simple alignment by means of optimized beam geometry
- Simple detection of flat objects
- Transmitter deactivation for testing and networking

Part no.	Part description	Operating range [m] Op. range limit [m]	Light source	Connection	Description
50117928	► LS28/9D-M12	0 ... 10 m 0 ... 15 m	LED, red	Connector, M12, 4-pin, plastic	DC, deactivation input
50117932	◄ LE28/2N-M12			Connector, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC
50117930	◄ LE28/4P-M12			Connector, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC
50117929	► LS28/9D	0 ... 10 m 0 ... 15 m	LED, red	Cable, 2,000 mm, 4-wire	DC, deactivation input
50117933	◄ LE28/2N			Cable, 2,000 mm, 4-wire	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC
50117931	◄ LE28/4P			Cable, 2,000 mm, 4-wire	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC

► transmitter / ◄ receiver

Retro-reflective sensors

Solid, cubic, polarized retro-reflective photoelectric sensor for installation situations in which a retro-reflector can be used.

PRK28

A polarization filter ensures the reliable suppression of direct reflections and, together with the high function reserve of the sensor, enables reliable detection. In addition, optimized beam geometry and the highly visible brightVision® light spot simplify alignment.

Benefits:

- Homogeneous light spot for safe switching behavior and easy alignment
- Safe suppression of direct reflection due to polarization filter

Part no.	Part description	Operating range [m] Op. range limit [m]	Light source	Connection	Description
50122587	PRK28.3/2N-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Connector, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC, teach button
50122585	PRK28.3/4P-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Connector, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC, teach button
50117926	PRK28/2N-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Connector, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC
50117924	PRK28/4P-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Connector, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC
50130049	PRK28.3/2N-200-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC, teach button
50130047	PRK28.3/4P-200-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC, teach button
50122589	PRK28/2N-200-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC
50122584	PRK28/4P-200-M12	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC
50122588	PRK28.3/2N	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC, teach button
50122586	PRK28.3/4P	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC, teach button
50117927	PRK28/2N	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 500 Hz; Digital switching output 1: transistor, NPN, light switching; Digital switching output 2: transistor, NPN, dark switching, DC
50117925	PRK28/4P	0.02 ... 4.5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 500 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, dark switching, DC

Detailed information on operating ranges in combination with reflectors can be found in the respective data sheet (online)