OEM AUTOMATIC

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DATASENSING
easing automation challenges

DATASENSING FL SERIES THROUGH BEAM FOR CAR WASHES M18 "T" HOUSING

FLID/DN-0C
Through Beam Receiver 30m M18 NPN, Dark/On cable
5m

- Sensing disatnce 3m
- Housing Material PBT and PC
- Output Types Emitter, PNP, NPN and PushPull logic
- IP protection degree: head IP69K (sensor IP67)
- Wide angular range for an easy allignment

PRODUCT DESCRIPTION

The **FL Series Through Beam Sensors with M18 "T-style" housing** from Datasensing are specifically designed to meet the unique demands of car wash applications. With their rugged IP69K rating, these sensors are built to withstand the high-pressure water jets, chemicals, and harsh environmental conditions commonly found in car wash systems. The T-style housing and M18 optical head design ensure easy mounting and precise alignment, making installation and setup straightforward even in complex car wash systems.

Available in two versions, the FL Series offers flexibility to suit a variety of car wash needs. The high-distance version provides an impressive sensing range of up to 30 meters, making it ideal for larger car wash systems or areas that require long-range detection. For smaller or more compact setups, the standard version offers a reliable 8-meter range, providing accurate detection and dependable performance for standard car wash applications. Both versions ensure stable and consistent operation, even in fast-paced, high-throughput environments.

The FL Series sensors are equipped with a wide angular range that allows for simple and easy alignment, reducing setup time and ensuring optimal performance from the start. This feature is particularly beneficial in car wash environments where precise alignment is critical for detecting vehicles at various angles and speeds. The T-style housing is designed to accommodate various mounting configurations, offering added flexibility to suit a wide range of car wash system layouts.

Technical features:

- Sensor Type: Through-beam sensor designed for car wash applications, providing reliable detection over a long range.
- Housing: M18 "T-style" housing with a robust and compact design, optimized for car wash environments or stainless steel housing providing durability and resistance to harsh chemicals, high-pressure water, and mechanical wear.
- Protection Rating: IP69K rated, ensuring the sensor is fully protected against high-pressure water jets, dust, and moisture, making it ideal for car wash applications.
- Sensing Range: High-distance version with a detection range of up to 30 meters, suitable for larger car wash system or standard version with a detection range of 8 meters, perfect for smaller or more compact systems.
- Angular Range: Wide angular range for simple and easy alignment, making installation and setup more efficient in dynamic car wash environments.
- Operating Temperature Range: Designed to work in challenging conditions with an operating temperature range of -25°C to +55°C, ensuring reliable performance in a variety of climates.
- Fast Response Time: Quick response times, ensuring high-speed detection in fast-moving car wash systems.
- Power Supply: Operates on a standard 24V DC power supply, making it compatible with most industrial systems.
- Durability: Built to endure harsh industrial environments, particularly the car wash industry, with resistance to high-pressure water, chemicals, and dust.
- Easy Installation: T-style housing and M18 optical head allow for simple alignment and installation, reducing setup time and ensuring precise vehicle detection.
- Versatile Applications: Tailored specifically for use in car wash systems, including both automatic and manual car washes.

TECHNICAL DATA

Distance max	30000 mm
Electrical connection	5m Cable

Housing	M18 T-style
IP class	IP67, IP69K
LED indication	Yes
Material of body	PC / PBT
Output	NPN, Dark on
Photocell technology	Through beam receiver
Supply voltage dc max	24 V DC
Temperature operational max	70 °C
Temperature operational min	-20 °C

dimensions (mm)

electrical diagram of the connections

dimensions (mm)

electrical diagram of the connections