

# *Specialty Machinery*

## Tunnel Car Wash Solutions



Merlin Gerin  
Square D  
Telemecanique

**Schneider**  
 **Electric**  
*Building a New Electric World*

Schneider Electric is a global producer of electric distribution, automation and control equipment, manufacturing products under the Square D®, Telemecanique® and Merlin Gerin® brand names. With over 100 years of manufacturing experience, Schneider Electric manufactures innovative products that are tailored to meet the demanding specifications of tunnel car wash OEMs and their customers. Backed by a global organization with one of the strongest distributor networks in the U.S. and around the world you can count on Schneider Electric to help you keep your business running smoothly and efficiently.

Today's car wash applications are cleaning and drying vehicles better than ever before. Customer demands drive the need for fast, thorough and efficient processes to speed them through your operation. These applications require reliable, flexible and scalable components to meet the harsh environmental requirements to effectively clean the customer's vehicle.

Downtime is expensive. Our innovative products can be incorporated into car wash OEM system designs to improve all levels of their performance and operation. The demand from customers for easy-to-maintain designs that can be quickly and cost-effectively updated are of primary concern today. In the age of automation, you need a supplier who can provide solutions to standalone, operatorless structures that require little maintenance. Schneider Electric can provide you with automation, control and power solutions to create an operation to meet those demands.

Availability of replacement parts can also be a concern. With vendors manufacturing components throughout the world and the integration challenge that it presents to system designers, you can count on Schneider Electric to provide a standardized, integrated approach to coordinating all system components from standalone automation to power.

Consider Schneider Electric as a key provider of tunnel car wash application solutions and equipment in your next design. With a global support network for sales, services and products, you can count on us to help you support your equipment around the country or around the world.





**1, 7, 8 – TeSys® U-Line Motor Starters**

TeSys U-Line motor starters provide motor control for choices ranging from a basic motor starter with solid-state thermal overload protection to a sophisticated motor controller that communicates on networks and includes programmable motor protection. Using a plug-in modular design, the U-Line starters allow maximum flexibility in motor control.



**1, 7, 8 – TeSys D-Line Contactors**

TeSys D-Line contactor from 9 A to 150 A represents the latest in motor control technology. This contactor line provides a small foot print, saving valuable panel space. In fact, the 9-32 amp contactors are only 45mm wide and over 25% smaller in depth than most contactors. In addition, DC low consumption coils can cut energy demand by up to 75%, and the unique Quickfit technology can reduce installation time by up to 50%.



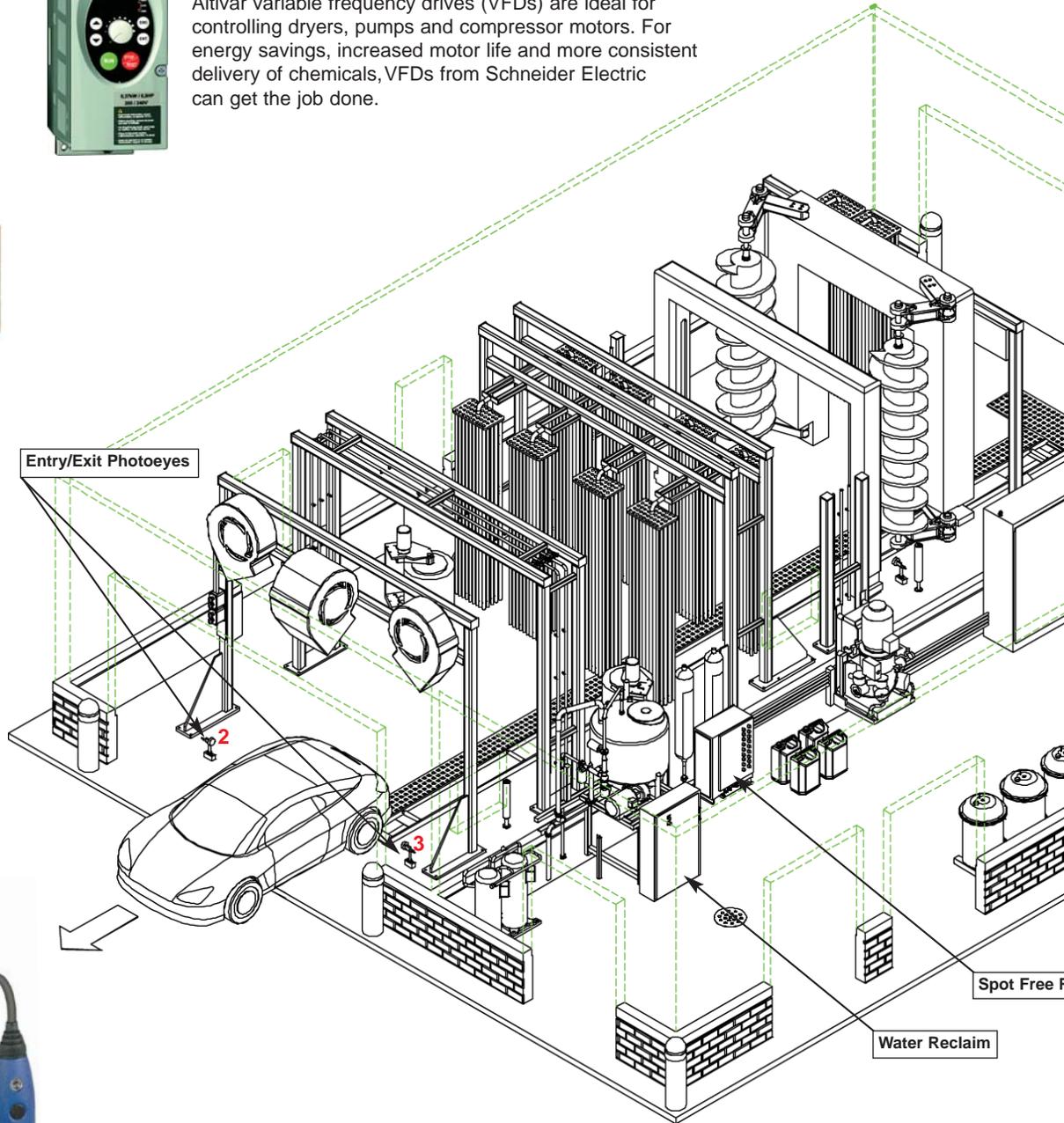
**1, 7, 8 – Altivar Variable Frequency Drives**

Altivar variable frequency drives (VFDs) are ideal for controlling dryers, pumps and compressor motors. For energy savings, increased motor life and more consistent delivery of chemicals, VFDs from Schneider Electric can get the job done.



**1, 7, 8 – Twido® Ultra Compact PLCs**

The Twido compact and modular PLCs both share the same options, I/O expansions and programming software, providing improved simplicity and flexibility. A programmable controller for standard applications from 10 to 100 I/O (maximum 252 I/O), the Twido PLC is ideal for car wash applications.



**2, 3 – Sensor Technology**

Schneider Electric features a comprehensive line of products, including ultrasonic sensors for creating vehicle profiling and photoelectric sensors for entry/exit vehicle detection. Programmable pressure switches for monitoring and controlling wash hydraulics and pneumatics are also available.



### 1 – Advantys Distributed I/O

In addition to simplifying wiring, Advantys distributed I/O solutions can be managed via a bus or communication network. Whether open or modular, this wiring platform solution is ideal for car wash applications



### 1, 7, 8 – Pilot Devices

Telemecanique, is the world leader for pilot devices offering its range of push buttons, pilot lights and selector switches for car wash applications. Unequaled and of the highest quality, it is the largest offering on the market.

### 1, 7, 8 – Phaseo Power Supplies

Available in single or three phase, Phaseo power supplies are designed to provide DC voltage for control circuits. These power supplies also feature a compact size, are din rail mountable and are accurate to 3% regardless of load or type of supply voltage.



### 1, 7, 8 – Multi 9 Miniature Circuit Breakers

Merlin Gerin Multi 9 miniature circuit breakers are ideal for car wash applications that require branch circuit protection (UL 489). Their use avoids potential code violation that can occur with misuse of supplementary protectors (UL 1077). They are also ideal for replacement of fuses in car wash equipment.



### 1, 7, 8 – Magelis HMIs

Schneider Electric offers a complete range of industrial PCs that meet your application needs. With its compact size, ease of installation and setup, and openness to web technologies, this high-performance range has been designed with car washes in mind.



### 5 – Safety Switches

Square D safety switches are designed for commercial and industrial use applications where maximum performance and continuity of service is vital. Safety switches are required by the NEC as a disconnect within sight of a motor. Available in NEMA Type 1, 3R, 4, 4X, 5 and 12 enclosures Square D safety switches can be located in the wash bay area.



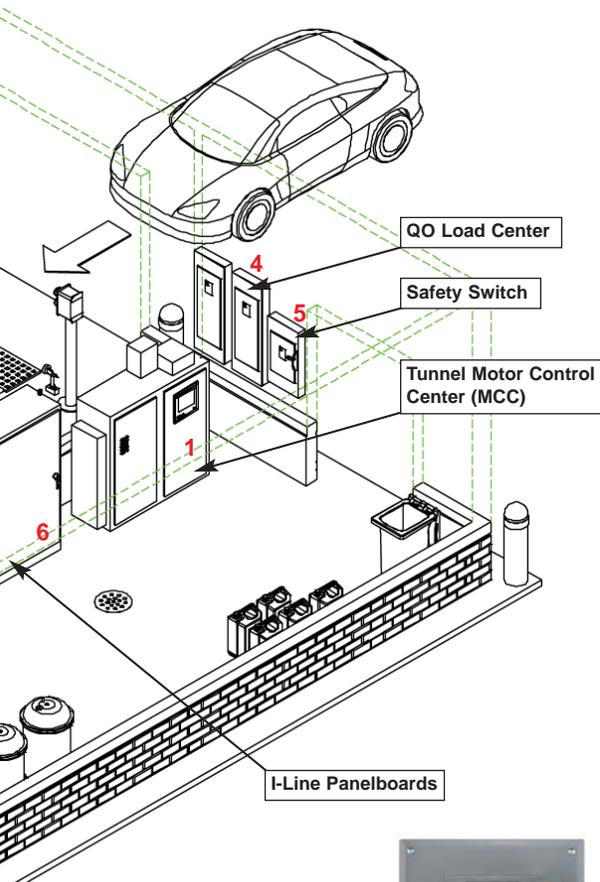
### 1, 7, 8 – Zelio® Logic Relays

Telemecanique Zelio logic relays are programmable and designed specifically for small control systems. The Zelio logic relay is ideal for self serve, water reclaim and spot free rinse systems where it can be used to replace relays, timers and counters.



### 1, 7, 8 – 9070T Control Transformers

Square D 9070T control transformers are used to step down the supply voltage to control voltage and are available from 50 VA to 5000 VA.



4 – QO® Load Centers



6 – I-Line® Panelboards

A photograph of a car being washed in a tunnel. The car is the central focus, with water spray visible around it. The background is a light, hazy tunnel environment. The text is overlaid on the right side of the image.

## *Product Solutions*

Schneider Electric product solutions for automation, motor control, sensing and power can be used throughout your system design. Our application capabilities, as a complete solutions provider, are identified on the tunnel CAD drawing.

Our solutions include a broad range of products that can meet and exceed your application requirements.

### **Automation**

With its Transparent Ready® line, Schneider Electric has applied market standards to its control system architectures, making data exchange even easier. Smart and simple to use, the Telemecanique® software ensures maximum efficiency in terms of car wash application development and maintenance, while our high-performance PLCs help to achieve optimum installation availability and productivity.

### **Motor Control**

The Schneider Electric line of Altivar® variable frequency drives and TeSys® contactors offers a range of control, from the simplest forms of motor speed and control to the most complex VFD applications with network connectivity.

### **Sensing**

Whether it's ultrasonic, photoelectric, proximity sensors or pressure switches, Schneider Electric's sensor competency center has the expertise to solve your sensing challenge with the right solution the first time, customized to your specific car wash application.

### **Power**

Schneider Electric power management products are the global leader in providing enterprise energy reduction and reliability solutions. For over a decade, our systems have provided savings through reduced utility costs, effective power equipment management, increased power system reliability and downtime avoidance.

### **Interconnectivity and Monitoring**

Transparent Ready® products from Schneider Electric feature an Ethernet connection and embedded web server, designed to organize valuable information for easy access from any PC on your network, using just a standard web browser.

Schneider Electric offers OEMs national and global support to provide a complete solutions package. Long after the equipment is installed, our customer and field service organizations can help you maintain the high level of service you demand on your equipment.



***Merlin Gerin**<sup>®</sup> circuit protection products are known globally for their safe, scaleable unique design to meet the worldwide standards for electrically compliant solutions.*



***Square D**<sup>®</sup> is a market leader for NEMA type industrial controls, electrical distribution, circuit protection, related power equipment, systems and services.*



***Telemecanique**<sup>®</sup> is a worldwide leader and manufacturer of IEC type industrial control and automation products.*

To learn more about Schneider Electric solutions, visit our website at [www.us.schneider-electric.com](http://www.us.schneider-electric.com) or contact your nearest Square D or Telemecanique sales engineer or distributor for details.

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