

Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

The illustrations, charts, sample programs and layout examples shown in this supplement are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability including intellectual property liability, for actual use based upon the examples shown in this publication.

Related Safety Information

The installer is responsible for the safety of the entire installed control system and for meeting all applicable laws, codes, and safety requirements.



ATTENTION: As the installer of this control system, you must be knowledgeable of other applicable standards pertaining to safety recommendations related to:

- Machine Construction
- General Electrical
- Machine Guarding
- Point of Operation guards, safety light curtains, mechanical guards, two-hand controls, and safety monitoring relays

In addition to local laws and codes, you are responsible for the safety recommendations detailed in all applicable codes and standards including:

- National Electric Code
- OSHA Regulations
- ANSI Standards

Terms and Conditions

For applicable "Terms and Conditions of Sale" please refer to page General-4.

IMPORTANT

Rockwell Automation reserves the right to make revisions to the material contained in this catalogue and specifically disclaims all liability for any incidental or consequential damages resulting from the furnishing, performance or use of this material.



Safety Guidelines and Warranties/Metric Conversions

Application Considerations

Selection of Equipment — Because of the variety of uses for the products described in this catalogue, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

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Allen-Bradley Publication SGI-1.1, "Safety Guidelines for the Application, Installation and Maintenance of Solid-state Control" (available from your local Allen-Bradley Sales Office) describes some important differences between solid-state equipment and electromechanical devices which should be taken into consideration when applying products such as those described in this catalogue.

Service and Installation Conditions — Unless otherwise noted, the products described in this catalogue are designed to meet "usual service and installation conditions" as defined in NEMA (National Electrical Manufacturers Association) Standards Publication — Part ICS 1-108. Open style devices must be provided with environmental protection by proper mounting in enclosures designed for specific application conditions.

See pages 1-7 and 1-9 of this catalogue for information on enclosures and an explanation of the degrees of protection provided by the different types, based on NEMA Standards Publication 250 and IEC Publication 529, as applicable.

Performance Data — Performance data given in this catalogue is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of accelerated testing at elevated stress levels, and the user should correlate it to actual application requirements. Actual performance is subject to Allen-Bradley WARRANTY and LIMIT OF LIABILITY (see Allen-Bradley Terms and Conditions of Sale on page 1-4).

Metric Conversion Factors		
From	To	Multiply by
Length		
Inches (in.)	Millimetres (mm)	25.4
Inches (in.)	Centimetres (cm)	2.54
Feet (ft)	Meters (m)	0.305
Yards (yd.)	Meters (m)	0.914
Millimetres (mm)	Inches (in.)	0.0394
Centimetres (cm)	Inches (in.)	0.394
Meters (m)	Feet (ft.)	3.28
Meters (m)	Yards (yd.)	1.09
Area		
Square inches (in. ²)	Square millimetres (mm ²)	645.0
Square inches (in. ²)	Square centimetres (cm ²)	6.45
Square feet (ft. ²)	Square meters (m ²)	0.0929
Square yards (yd. ²)	Square meters (m ²)	0.836
Square millimetres (mm ²)	Square inches (in. ²)	0.00155
Square centimetres (cm ²)	Square inches (in. ²)	0.155
Square meters (m ²)	Square feet (ft. ²)	10.8
Square meters (m ²)	Square yards (yd. ²)	1.20
Weight		
Ounces (oz.)	Grams (g)	28.3
Pounds (lb)	Kilograms (kg)	0.454
Grams (g)	Ounces (oz.)	0.0353
Kilograms (kg)	Pounds (lb)	2.20
Volume		
Cubic inches (in. ³)	Cubic centimetres (cm ³)	16.4
Cubic feet (ft. ³)	Cubic meters (m ³)	0.0283
Cubic inches (in. ³)	Litres (L)	0.0164
Cubic feet (ft. ³)	Litres (L)	28.3
Gallons (Imp)	Litres (L)	4.55
Gallons (US)	Litres (L)	3.79
Cubic centimetres (cm ³)	Cubic inches (in. ³)	0.061
Cubic meters (m ³)	Cubic feet (ft. ³)	35.3
Litres (L)	Cubic inches (in. ³)	61.0
Litres (L)	Cubic feet (ft. ³)	0.0353
Litres (L)	Gallons (Imp)	0.220
Litres (L)	Gallons (US)	0.264
Pressure		
Pounds/square inch (psi)	Kilopascals (kPa)	6.89
Pounds/square inch (psi)	Bars (Bar)	0.0689
Kilopascals (kPa)	Pounds/square inch (psi)	0.145
Bars (Bar)	Pounds/square inch (psi)	14.5
Torque		
Pound inch (lb in.)	Newton meters (Nm)	0.113
Newton meters (Nm)	Pound inch (lb in.)	8.85
Temperature		
Degrees Fahrenheit (°F)	Degrees Celsius (°C)	●
Degrees Celsius (°C)	Degrees Fahrenheit (°F)	●

● Conversion Formula: $5/9 (°F - 32°F) = °C$

● Conversion Formula: $9/5 (°C) + 32°F = °F$

