MX64™ Sealed Connectors

Single-row 2.54mm Pitch; 2, 3, 6 and 8-circuits

molex®

Meeting OEM-approved and USCAR-compliant requirements, compact MX64™ connectors provide seamless mating possibilities with a variety of automotive sensors

MX64-to-powertrain sensor applications in automotive

MX64-to-Safety and Chassis applications in automotive

The MX64 mates to custom sensors as well

Features and Benefits

Meets all USCAR footprints and testing requirements for 0.64mm square-pin connector systems	Compliance with OEM directives
Available with or without CPA	Adds locking protection when CPA is used
Four polarization options available in 4 different colors	Prevents mis-mating
IP67-rated matte seals	Eliminates secondary operations and costs needed for cable seals
Accommodates 18-22 AWG wires and ISO metric wires	Supports US and offshore wire requirements
Integrates with automotive OEM-approved terminal systems	For maximum design freedom

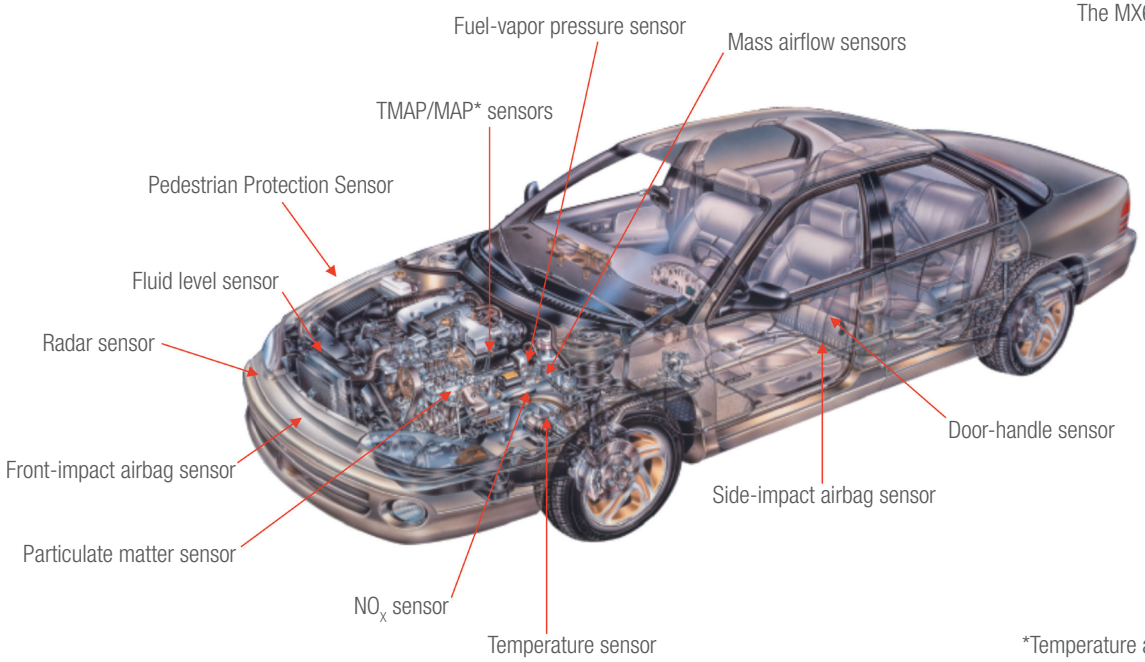
Applications

Automotive sensors used in

- Powertrain
- Comfort, Infotainment and Driver Assist
- Body Electronics
- Safety/Chassis

Commercial Vehicles sensors used in

- Chassis and Safety
- Powertrain
- Hydraulics



*Temperature and Manifold Absolute Pressure Mapping

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Reference Information
Packaging: Bulk (Housings); Reel (Terminals)
Mates With: Sensors and other USCAR Interfaces
Terminal Used: Refer table below
Designed In: Millimeters
RoHS: Yes.
Halogen Free: Low Halogen
Glow-wire Compliant: No
Sealing Class: IP67

Electrical
Voltage (max.): 500 VDC
Current (max.): 10.0A (With Molex terminals)
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage:
500V DC and 1000V AC
Insulation Resistance (min.): 20 Megohms

Mechanical
Contact Insertion Force (max.): 30N
Contact Retention to Housing (min.): 90N
Mating Force (max.): 75N
Unmating Force (min.): 110N
Durability (max.): 20 milliohms

Physical
Connector housing: 10% glass-filled polyester
Terminal housing and TPA:
20%-glass filled SPS/Nylon blend
CPA housing: 30% glass-filled polyester
Contact: Copper Alloy
Plating:
Contact Area — Tin (Sn), Silver (Ag), Gold (Au)
Solder Tail Area — Copper Alloy
Underplating — Nickel (Ni)
Operating Temperature: -40 to +125°C

Ordering Information

Crimp Housings

Series No.	Style	Circuits	Use With
31402	Sealed, single-row, female	1 by 2 1 by 3 1 by 6 1 by 8	TE Connectivity GET Terminals
31403			Molex terminals
31404			Kaizen† terminals

Crimp Terminals

Series No.	Wire Size	Plating
33467	18-22 AWG	Gold (Au)
33468		Tin (Sn)
34736		Silver (Ag)

†Kaizen is either a trademark or registered trademark of Yazaki group of companies

www.molex.com/link/mx64.html

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