



External-thread DIN Valve Connectors, with unsurpassed IP67 sealing properties and superior cable retention, increase performance, simplify manufacturing processes, reduce inventory and lower applied costs for hydraulic, pneumatic and electromagnetic devices

Brad® mPm® DIN valve connectors conform to industry standard EN 175301-803 (formerly DIN 43650); the standard for a series of electrical connectors which are commonly used with solenoid valves, especially those used on valves in hydraulics and pneumatics.

Molex's field-attachable, external-nut design is mechanically superior to traditional internal-nut DIN Valve connectors, achieving greater cable retention and improved sealing to IP67.

For additional information visit: www.molex.com/link/dinvalve.html

Features and Benefits

Ergonomic external-nut design Provides greater and consistent torque for more uniform seal between connector and cable 20% greater cable-retention force over internal-nut designs for increased reliability

IP67-rated when mated Improved sealing from IP65

Each connector accommodates PG9, PG11 cable, up to 9.00mm outer diameter One size fits all; cost savings achieved through inventory reduction

Standard circuitry options available include LED and bi-polar LED indicators, blocking diodes and voltage-dependent resistors (VDRs) Built-in circuit protection and LED indicators to meet a wide range of customer design requirements

Internal volume of Form C housing increased by 30% with no change to external dimensions of connector Improves handling, wire routing and speed of assembly over internal-nut version

Three packaging options to meet customer requirements, includes 'ready-to-use' un-mounted (dis-assembled) condition Unmounted packaging reduces labour time and associated costs

Plus / minus screw head on terminal Enables use of air tools in volume production and screwdriver can be used by the installer in a field application

Available UL listed: UL file number E218123 Globally saleable. UL listing covers sale in America and Canada

Brad® mPm® DIN Valve Connectors External Thread, Field Attachable

DIN Form

- 121201** A
- 121207** A + Circuit
- 121202** Industrial
- 121208** Industrial + Circuit
- 121203** B
- 121209** B + Circuit
- 121204** C
- 121210** C + Circuit
- 121205** Micro
- 121211** Micro + Circuit



External Thread mPm® DIN Valve Connectors



DIN Form A with Circuitry



DINForm B / Industrial with Circuitry

Applications

Industrial

Valve Manufacturers:

Pneumatic valves
(air under pressure)

Hydraulic valves
(oil under pressure)

Solenoid valves

Pressure switches

Proximity switches

Limit switches

Transducers

Level sensors

Low energy motors

Factory automation

Complex machine builders

Commercial vehicle

Garbage / refuse and cleaning trucks

Construction vehicles

On-vehicle crane and lifting equipment

Mining machinery

Farm machinery and tractors

Forklift trucks

Telecom

Power supplies

Home appliance

HVAC

Ironing machines

Vending machines

Other

All markets where signal and power connections are required to perform in rugged environments

Specifications

REFERENCE INFORMATION

Packaging: Single pack or bulk components

UL File No.: E218123

RoHS: Yes

Halogen Free: Yes

Glow Wire Compliant: Available

Protection class: IP67 EN60529

RoHS: Compliant by Exemption

Glow Wire Compliant: Yes

ELECTRICAL

Voltage (max.): 250V AC
300V DC

Current (max.): 16.0A

Contact Resistance:
≤ 4 milliohms max.

Insulation Resistance:
100 Megaohms min.

Max. conductor:
1.50mm² / 16 AWG

MECHANICAL

Insertion and Withdrawal Force:

2 + PE ≤ 60N

3 + PE ≤ 80N

Durability (min.): 50 cycles

PHYSICAL

Housing: Glass Filled Polyamide

Contact: Yellow Brass (Cu)

Plating: Silver (Ag)

PCB Thickness: 0.90mm

Operating Temperature -

Gasket material:

Nitrile Rubber (NBR):

-40 to +90°C

Silicone: -40 to +125°C

Cable Range:

Outer diameter:

Form A, B, Industrial =

4.00 to 9.00mm

Form C, Micro =

3.00 to 5.50mm

Contact Distance:

Form A: 18.00mm

Form Industrial: 11.00mm

Form B: 10.00mm

Form C: 8.00mm

Form Micro: 9.40mm

**Brad® mPm® DIN
Valve Connectors
External Thread,
Field Attachable**



Hydraulics in construction equipment



Hydraulics in refuse trucks



Pressure valves



Forklift truck

CONNECTORS WITHOUT CIRCUIT

DIN Form	SAP Order No.	Engineering No.	Packaging Type		No. of Poles	Circuitry
A	121201-0001	C28200N0R	Single Bag	Un-mounted	2 + Ground	NO
A	121201-0003	C28200N0RCN	Bulk Pack			
A	121201-0034	C28200N2RSN	Bulk Pack	Mounted		
A	121201-0002	C28300N0R	Single Bag	Un-mounted	3 + Ground	
A	121201-0004	C28300N0RCN	Bulk Pack			
A	121201-0038	C28300N2RSN	Bulk Pack			
INDUSTRIAL	121202-0001	C22200N0R	Single Bag	Un-mounted	2 + Ground	
INDUSTRIAL	121202-0002	C22200N0RCN	Bulk Pack			
INDUSTRIAL	121202-0012	C22200N2RSN	Bulk Pack			
B	121203-0001	C92200N0T	Single Bag	Un-mounted		
B	121203-0007	C92200N0TCN	Bulk Pack			
B	121203-0009	C92200N2TSN	Bulk Pack			
C	121204-0001	C25200N0T	Single Bag	Un-mounted		
C	121204-0009	C25200N0TCN	Bulk Pack			
C	121204-0010	C25200N2TSN	Bulk Pack			
MICRO	121205-0001	C29200N0T	Single Bag	Un-mounted		
MICRO	121205-0009	C29200N0TCN	Bulk Pack			
MICRO	121205-0012	C29200N2TSN	Bulk Pack			

CONNECTORS WITH CIRCUIT

DIN Form	Order No.	Engineering No.	Packaging Type	Mounting	No. of Poles	Circuitry*	Voltage AC/DC	Led Colour†
A	121207-0005	S28200TC4H0R	Single Bag	Unmounted	2 + Ground	C4	24V	Yellow
A	121207-0397	S28200TC4H0RCN	Bulk Pack					
A	121207-0368	S28200TC4H2RSN	Bulk Pack	Mounted				
A	121207-0106	S28200TC4M0R	Single Bag	Unmounted				
A	121207-0400	S28200TC4M0RCN	Bulk Pack					
A	121207-0371	S28200TC4M2RSN	Bulk Pack	Mounted				
B	121209-0047	S92200TC4H0T	Single Bag	Unmounted				
B	121209-0127	S92200TC4H0TCN	Bulk Pack					
B	121209-0207	S92200TC4H2TSN	Bulk Pack	Mounted				
B	121209-0050	S92200TC4M0T	Single Bag	Unmounted				
B	121209-0130	S92200TC4M0TCN	Bulk Pack					
B	121209-0210	S92200TC4M2TSN	Bulk Pack	Mounted				
INDUSTRIAL	121208-0080	S22200TC4H0R	Single Bag	Unmounted				
INDUSTRIAL	121208-0160	S22200TC4H0RCN	Bulk Pack					
INDUSTRIAL	121208-0240	S22200TC4H2RSN	Bulk Pack	Mounted				
INDUSTRIAL	121208-0083	S22200TC4M0R	Single Bag	Unmounted				
INDUSTRIAL	121208-0163	S22200TC4M0RCN	Bulk Pack					
INDUSTRIAL	121208-0243	S22200TC4M2RSN	Bulk Pack	Mounted				

*Circuitry - please refer to schematic diagrams on page 10 or Sales Drawings for details
 †LED colours - please refer to Sales Drawing for full range available

CONNECTORS WITH CIRCUIT

DIN Form	Order No.	Engineering No.	Packaging Type	Mounting	No. of Poles	Circuitry*	Voltage	Led Colour†
C	121210-0042	S25200TC4H0T	Single Bag	Unmounted	2+ Ground	C4	24V	Yellow
C	121210-0192	S25200TC4H0TCN	Bulk Pack					
C	121210-0342	S25200TC4H2TSN	Bulk Pack	Mounted				
C	121210-0045	S25200TC4M0T	Single Bag	Unmounted				
C	121210-0195	S25200TC4M0TCN	Bulk Pack					
C	121210-0345	S25200TC4M2TSN	Bulk Pack	Mounted				
MICRO	121211-0042	S29200TC4H0T	Single Bag	Unmounted				
MICRO	121211-0192	S29200TC4H0TCN	Bulk Pack					
MICRO	121211-0342	S29200TC4H2TSN	Bulk Pack	Mounted				
MICRO	121211-0045	S29200TC4M0T	Single Bag	Unmounted				
MICRO	121211-0195	S29200TC4M0TCN	Bulk Pack					
MICRO	121211-0345	S29200TC4M2TSN	Bulk Pack	Mounted				

*Circuitry - please refer to schematic diagrams on page 10 or Sales Drawings for details

†LED colours - please refer to Sales Drawing for full range available

The part numbers listed in this datasheet represent a snapshot of the range available. For part numbers and configurations not listed please refer to molex.com or contact your local Molex representative.