

DATA SHEET

DP-33026

Switch and Display Panel

16 Position

CANBUS

mcdpx™

This versatile switch panel has a small footprint and large buttons. Its switches have a long life and are sealed against spray. It is low-profile, has a rugged steel enclosure, and uses CAN2B J1939 structure, communicating with and providing HMI for J1939 CAN BUS systems.

LCD Display

The LCD is a transfective 128 x 64 pixel monochrome graphic backlit with white LEDs. Its operating temperature falls between -20 °C and 70 °C.

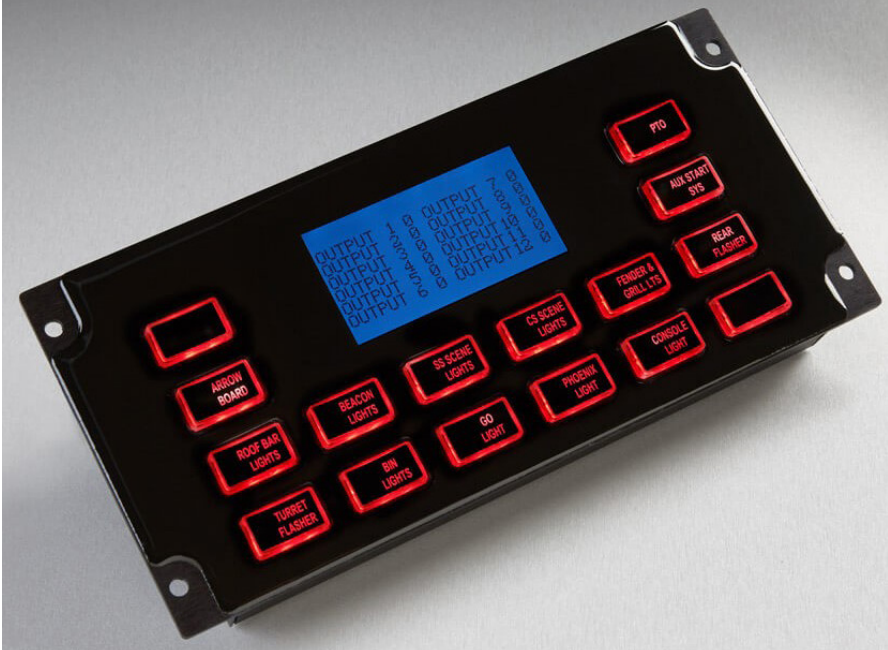
Connector Pinout

Connector	Function	Type of I/O
J1-1	CAN High	Communication
J1-2	Ground	Ground
J1-3	Ignition ON/OFF	+12 Volts @ 0.2 Amp Max
J1-4	CAN Low	Communication
J1-5	Shield	Communication
J1-6	NC	
J2-1	CAN High	CANBUS Termination
J2-2	CAN Low	CANBUS Termination

Operating States (LEDs)	Color	Status
PWR	Blue	Power to switch panel
COM	Green	Communication status
FLT	Red	Board fault

Switches and Switch Labels

Switch backlights are red and switch indicators are white. Switch indicators are on the upper left corner of the switch. Switch state and function is externally controlled by a CANBUS controller, and switches are numbered left to right, up and down. Customizable text on the switch labels is white, uppercase, 8 pt Arial font. Label sheets are purchased separately and will be applied by the installer.



Mechanical Data

Housing	.062" aluminum black anodized or formed steel bent
Front Plate	.062" aluminum black anodized
Graphic	Black gloss polycarbonate, polydome, clear
Dimensions (l x w x h)	8.56 x 4.00 x 0.75 in. (217.42 x 101.60 x 19.05 mm)
Weight	0.77 lbs (350 g)
Installation	Flush or bracket

Technical Data

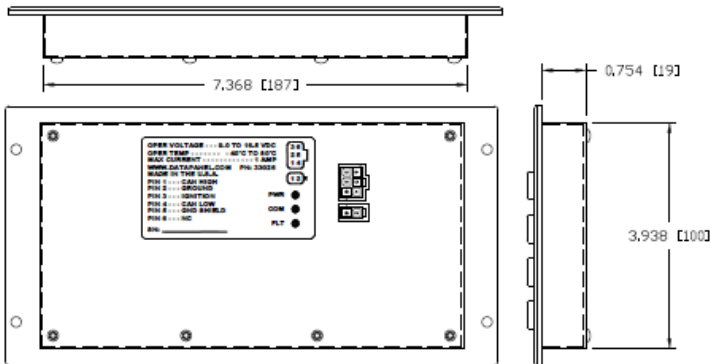
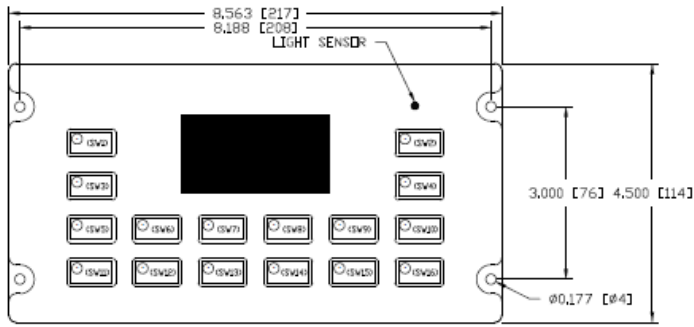
Connections:	MFG (DP):
Connectors	6 pin Molex 39-29-6068 (105-7603-1X102)
	2 pin Molex 39-29-6028 (105-7601-1x102)
Mating Connectors	6 pin Molex 39-01-2065 (104-0351-001)
	2 pin Molex 39-01-3028 (104-0151-001)
Mating Terminals	Molex 39-00-0186 (114-046)
Operating Voltage	9-16.5 Vdc
Switching Current	Signal
Total Module Current	1 A
Operating Temperature	-40...80 °C
Storage Temperature	-40...85 °C
Ingress Protection	IP65
Switches	1 million operations

Test Standards and Regulation

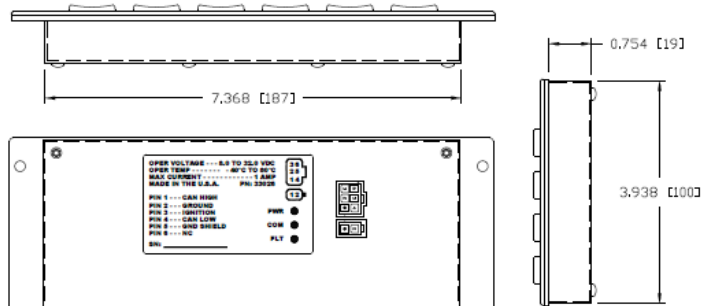
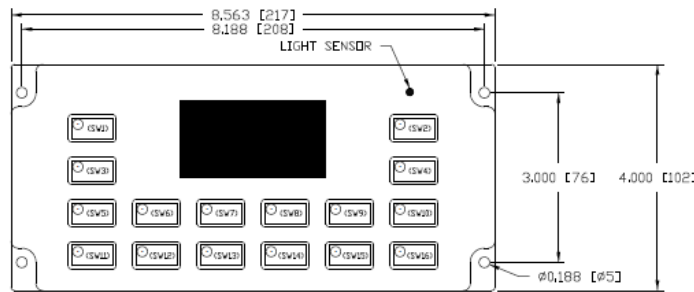
Climatic test	Storage Temperature to IEC 60068-2-1, Test Ad, IEC 60068-2-2, Test Bb Temperature Durability to IEC 60068-2-14, Test Nb
Mechanical test	Drop Test—With Shipping Container to IEC 60068-2-31, Test Ec
Electrical test	Electrical Tests to ISO 16750-2:2003 Vehicle Start Cycle—Brown Out to DP DSGN-3012 Power Cycle Tests Power Decay—Battery Drain to DP DSGN-3012 Power Cycle Tests

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				DATA PANEL		Date	Name
				A Murrelektronik Company	Originator	06.12.20	TMc
Rev	Description	Date	Name	DP-33026_db_e_a.docx	Approved	06.24.20	FSa
a	Initial release - DCN F320	07.06.20	FSa				

DATA SHEET



33026-3-000



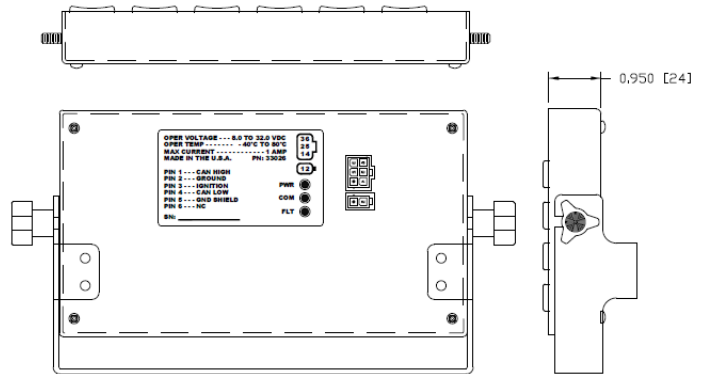
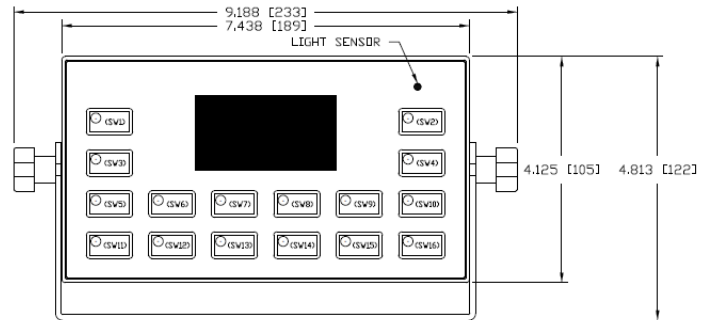
33026-4-000

CAN Control and Operation Message Summary			
Description	Function	PGN	SA
Switch State Message	Switches	65350 (0xFF46)	242 *
LED Indicator Control	Indicators	65351 (0xFF47) /1	n/a

* Base PGN and Base SA. Configuration option for +1, +2, +3, and +4 offset.

Diagnostics and Status Message Summary			
Description	Function	PGN	SA
Diagnostics and Status	Status	65384 (0xFF44)	209

P/N Matrix	
Part No.	Description
33026-3-000	16 position <i>mcdpx</i> ™ with display, wide, aluminum
33026-4-000	16 position <i>mcdpx</i> ™ with display, narrow, aluminum
33026-5-000	16 position <i>mcdpx</i> ™ with display, bracket, steel
33026-X-XXX	16 position <i>mcdpx</i> ™ with display, Custom Requirements



33026-5-000

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