

Coils and Electronics

M13

20W Standard Coil

PERFORMANCE DATA

Duty cycle	100% at 115% of rated voltage at 40°C [104°F]
Magnet wire insulation	200°C [392°F]
Ambient temperature range	-20 to 40 °C [-4 to 104 °F]
Input voltage range	85% to 115% of rated voltage
Temperature rise at 115% of rated voltage	130°C [266°F] above ambient
Weight	0.2 kg [0.44 lb]

ENVIRONMENT PROTECTION

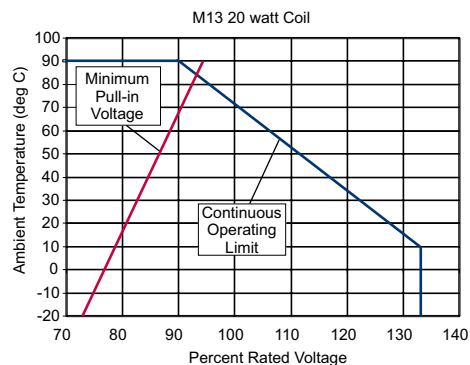
Rating	Connector Type
IP65	FL, FLD, and DN
IP67	AJ, AJD, AS, and ASD
IP69K	DE, DED

ELECTRICAL SPECIFICATIONS

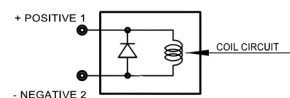
Voltage	10 VDC	12 VDC	20 VDC	24 VDC	110 VAC*	220 VAC*
Resistance (Ohms) @ 20 °C [68 °F]	5	7.2	20	29	530	2306
Current draw (A) @ 20 °C [68 °F]	2	1.67	1	0.83	0.18	0.085
Power (W)	20	20	20	20	18.5	17

*External rectifier required

PERFORMANCE CURVES



Diode Information



Built-in, uni-directional polarity diode
(Model # 1N5406)

MODEL CODE

M13 - 10D - 20W - AJ

Coil Voltage

Code	Coil Voltage
10D	10VDC
12D	12 VDC
20D	20 VDC
24D	24 VDC
110A	110 VAC*
220A	220 VAC*

*DIN only - external rectifier needed

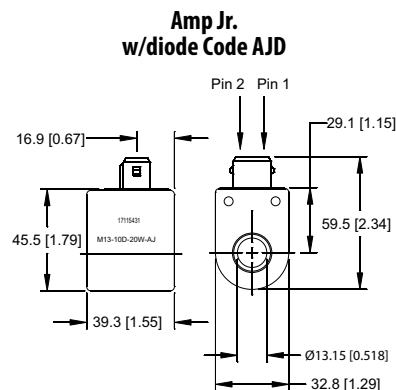
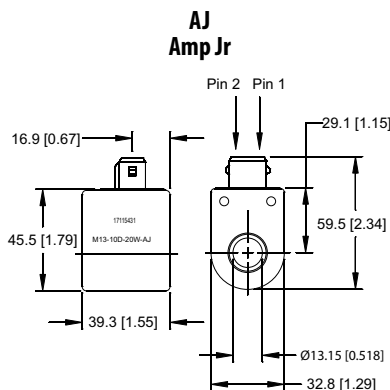
Coil Power

Connector Type

Code	Connector Type
AJ	Amp Junior
AJD	Amp Junior with Diode
AS	AMP SuperSeal 1.5
ASD	AMP SuperSeal with Diode
DE	Deutsch
DED	Deutsch with Diode
FL	Flying Leads
FLD	Flying Leads with Diode
DN	DIN 43650

DIMENSIONS

mm [in]



Coils and Electronics

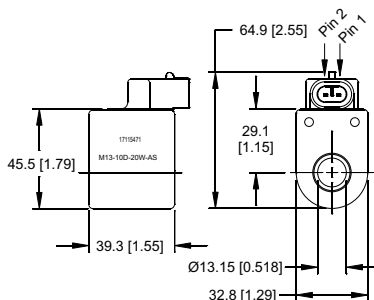
M13

20W Standard Coil

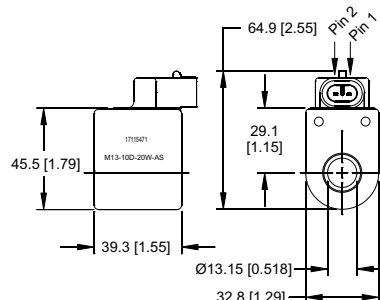
■ DIMENSIONS

mm [in]

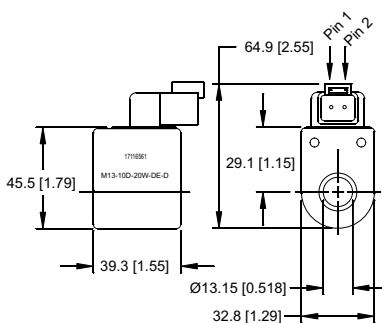
AS
Amp SuperSeal 1.5/MetriPak 150 Type 1



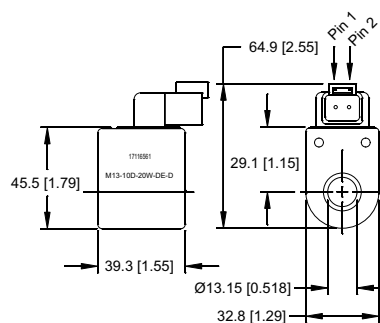
ASD
Amp SuperSeal 1.5/MetriPak 150 Type 1 w/diode



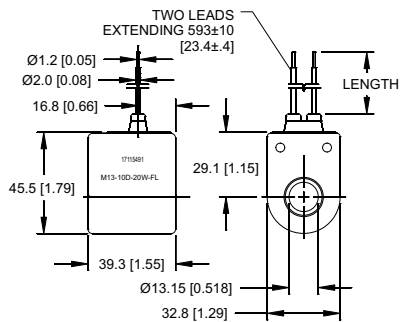
DE
Deutsch



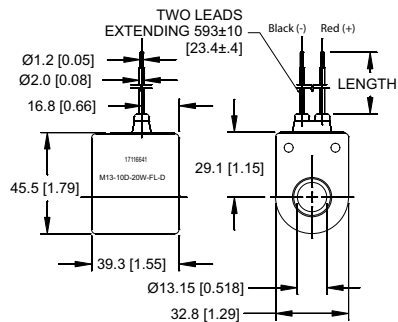
DED
Deutsch w/diode



FL
Lead wires



FLD
Lead wires w/diode



DN
ISO 4400 (DIN 43650)

